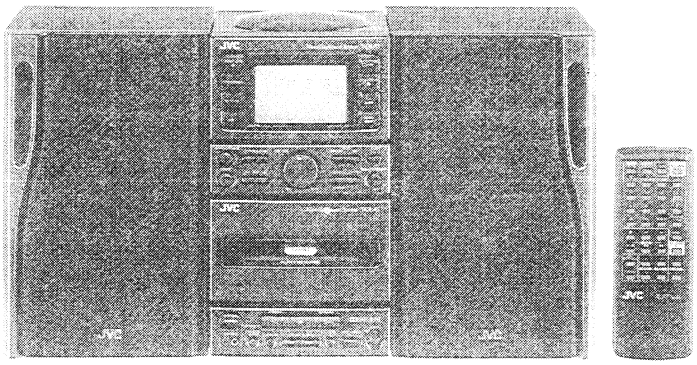
JVC

SERVICE MANUAL

DISK SIZE COMPONENT

UX-A5 A/B/E/G/GI/EN



COMPACT disc DIGITAL AUDIO

Area suffix

A ..... Australia
B ..... U.K.
E ..... Continental Europe
G ..... Germany
GI ..... Italy
EN ..... Northern Europe

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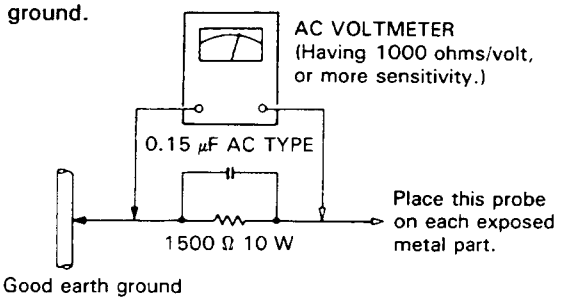
No. 1857
June 1992

1 Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer or responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by (⚠) on the schematic diagram and Parts List in Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List in Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.
   When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).
     This corresponds to 0.5 mA AC (r.m.s.).


AC VOLTMETER
(Having 1000 ohms/volt, or more sensitivity.)
0.15 μF AC TYPE
1500 Ω 10 W
Place this probe on each exposed metal part.
Good earth ground

Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are mainteined.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

2 Key Points for Safety Control of Model UX-A5 B/E/G

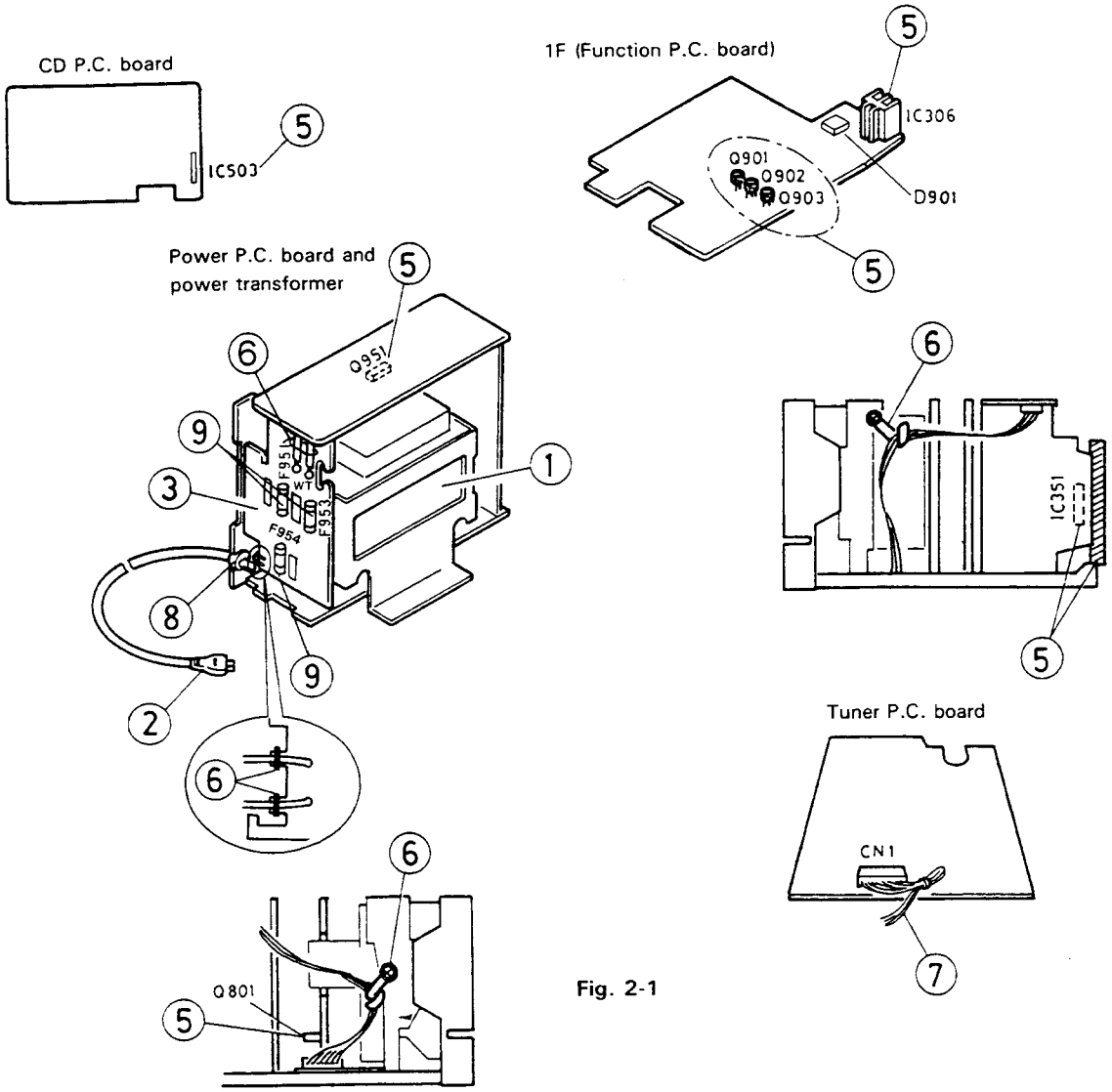


Fig. 2-1

1. Check "VTP66T6-24A = B, VTP66J6-24A = E/G" of power transformer and make sure that any bolt is not loosened.
2. Check the power source cord indication " ⊲VDE⊳ /E,G, BASEC.BS6500/B version" of attachment plug "KP-419C", and make sure that the cord is free from any defect (damage).
3. The primary circuit of the P.C. board and the pattern contacting the circuit should be extrusion-soldered by as much as one round to acquire a creeping distance.
* Any back-mounted parts of the P.C. board should be fixed with a spacer or bond.
5. Since the following parts are exothermic, make sure that such parts will not come into contact with any electrolytic capacitor/condenser, wire and other parts:

CD block: The IC306, heat sink and transistors (Q901, Q902, 903, D901 and IC503) are exothermic parts.

Deck block: The diode (D951), IC351, heat sink and transistor (Q801) are exothermic parts.

6. Any wire, etc. should be clamped or bonded as indicated in the above diagram so that such wire will not be positioned close to any exothermic parts.
7. The 10PIN wire of the tuner P.C. board should be treated by drawing it out to the tuner P.C. board side after inserting the connector in order that the wire will not approach close to any exothermic parts.
8. By using the special tool, attach the power cord bushing to the position where "4N-4" is marked.
9. Set and firmly fix the fuses F951, F953 and F954 respectively to T630mA T1.6A and T630 after confirming the respective positions.

Other
A barrier should be provided between the transformer connector and jack holder.

3 Instructions (Extract)

FEATURES

1. **Disc-size micro component system consisting of 4 units, designed for stacked or side-by-side installation.**
   - Consists of 4 units; a cassette deck/amplifier and a CD player/tuner, plus a pair of speakers.
2. **Powerful Active Hyper-Bass circuit for low-frequency sound reproduction and 2-way speakers for superior sound**
   - The cut-off frequency is controlled by a level identification circuit to reinforce low-frequency sound.
   - 2-way bass-reflex speakers with 12-cm (5") woofers and 5 cm (2") tweeters.
3. **36-key remote control unit opens and closes the motor-driving CD door, and operates the usual CD, cassette deck and tuner functions**
   - Remote controls power on/off switching, volume control, tone (Bass/Treble) control , Active Hyper-Bass on/off switching and a variety of editing functions.
4. **Green-colored large backlit LCD (Liquid Crystal Display)**
   - Display includes 5-band spectrum analyzer, 15-tune music calendar, function mode, etc.
5. **Multi-function CD player**
   - Capable of auto-edit and programmed play.
6. **U-Turn auto-reverse full-logic mechanism with Dolby* B NR and metal tape compatibility**
   - Auto tape select mechanism.
   - Music scan** in forward or reverse direction
7. **Automatic source selection**
   - Mode selection is not necessary to start the playback of the required source.
8. **2-Band digital synthesizer tuner with 30-station (15 FM and 15 AM) preset capability**
   - Seek/manual tuning.
9. **Timer/Clock function**
   - Timer on/off with preset volume function.
   - Wake-up volume setting with 5 different levels.
   - Sleep timer can be set for up to 120 minutes.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

** Under license of Staar S.A., Brussels, Belgium.

SPECIFICATIONS

CD player section

Type	:	Compact disc player
Signal detection	:	Non-contact optical pickup (semiconductor laser)
Number of channels	:	2 channels (stereo)
Frequency range	:	20 Hz – 20,000 Hz
Dynamic range	:	76 dB
Signal-to-noise ratio	:	76 dB
Total harmonic distortion	:	0.1 %
Wow & flutter	:	Less than measurable limit

Radio section

Frequency ranges	:	FM 87.5 — 108 MHz AM: 531—1,602 (UX-A5A) AM: (MW) 522—1,629 kHz (UX-A5B/E/G/GI/EN) (LW) 144—288 kHz (UX-A5B/E/G/GI/EN)
Antennas	:	Loop antenna for AM Ext. antenna terminal for FM (75 Ω)

Tape deck section

Track system	:	4-track 2-channel stereo
Motor	:	Electronic governor DC motor (capstan x 1, reel x 1)
Heads	:	Hard permalloy head for recording/playback, 2-gap ferrite head for erasure (Combination head)
Frequency response	:	50 – 15,000 Hz (with metal tape)
Wow and flutter	:	0.15 % (WRMS)
Fast wind time	:	Approx. 120 sec (C-60 cassette)

Speaker section (each unit)

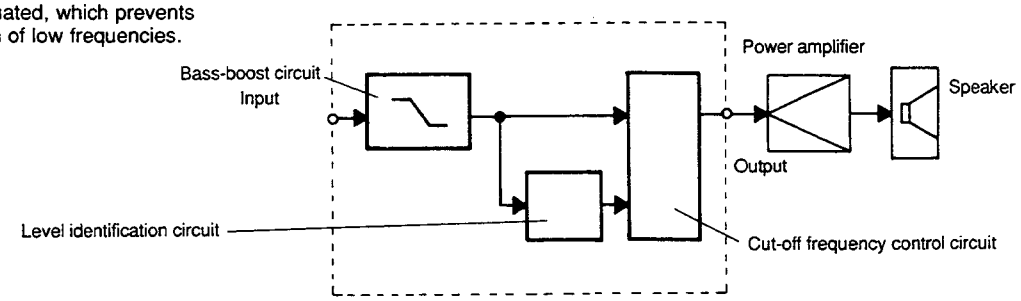
Speaker (Impedance)	:	12 cm x 1 (4Ω) 5 cm x 1 (6Ω)
Dimensions	:	159.5(W) x 250(H) x 198(D) mm (6-5/16" x 9-7/8" x 7-13/16")
Weight	:	Approx. 2.3 kg

General

Power output	:	28 W (14 W + 14 W) at 4 Ω (Max) 22 W (11 W + 11 W) at 4 Ω (10% THD)
Input jacks	:	AUX IN (300 mV/47 kΩ)
Output jacks	:	Speaker x 2 (matching impedance 4 Ω – 16 Ω) Headphones (0-30 mW/32 Ω) (matching impedance 16 Ω - 1 kΩ)
Power supply	:	AC 240 V, 50/60 Hz (UX-A5B) AC 230 V, 50/60 Hz (UX-A5 B/G/GI/EN)
Power consumption	:	60 W (with POWER SW ON) 5 W (with POWER SW STANDBY)
Dimensions	:	458(W) x 256(H) x 222(D) mm including knobs
Weight	:	Approx. 9.2 kg
Accessories provided	:	Remote control unit (RM-RXUA5) Battery "R03" x 2 (for the remote control) FM feeder antenna x 1 Loop antenna stand x 1 Speaker cord x 2 Antenna adapter x 1

Design and specifications are subject to change without notice.

- **Active Hyper-Bass circuit**
  Generally, since low-frequency sound is not reproduced satisfactorily by small speakers, a bass-boost circuit is used to reinforce low-frequency sound. However, if the volume is turned up with bass-boost reinforcement, low-frequency sound is easily saturated which results in distortion. As shown in the diagram, the Active Hyper-Bass circuit incorporates a control circuit in which the cut-off frequency of low-frequency sound is varied in the bass-boost circuit, with the cut-off frequency controlled by instructions from a level identification circuit. With these circuits, when the volume increases, low-frequencies are sharply attenuated, which prevents distortion caused by the saturation of low frequencies.

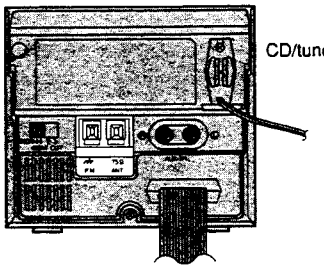


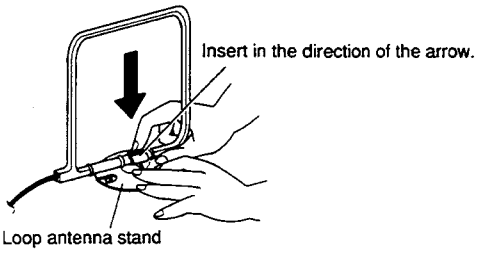
CONNECTIONS

- Do not switch the power on until all connections are complete.
- Keep the loop antenna away from the rear panel of the unit and install it so that the best reception is obtained. (Do not leave the antenna wire in a bundle.)

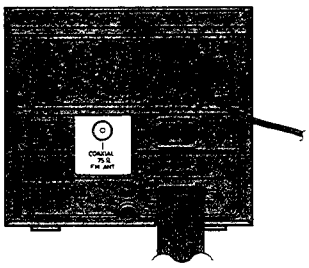
Antenna connection and adjustment

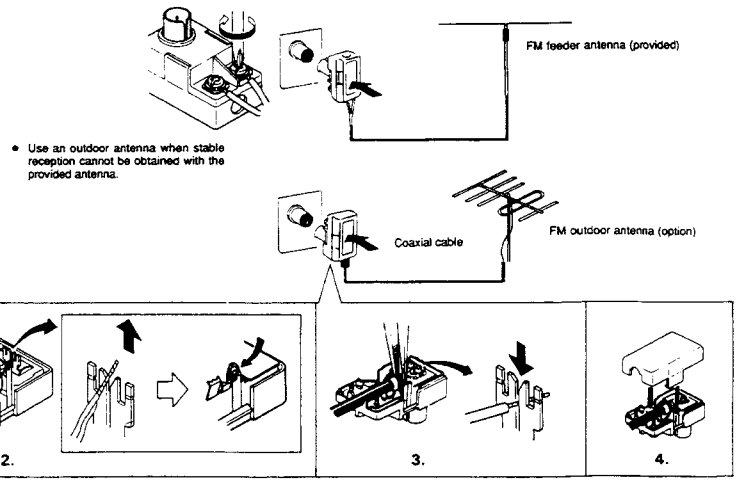
- AM loop antenna adjustment





- FM antenna connections and adjustments

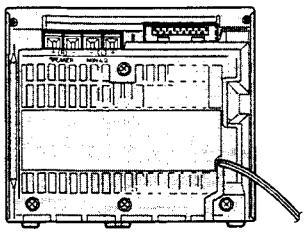




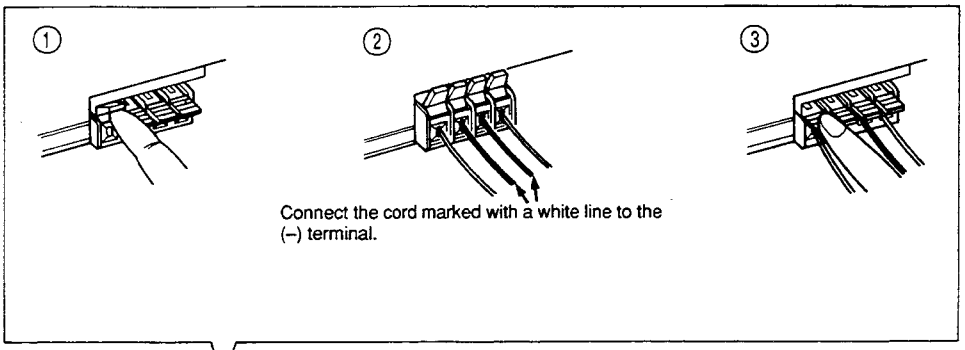
Notes:
- Do not place the loop antenna on a metal desk or near a TV or personal computer.
- Installing an outdoor antenna requires experience; we recommend that you consult an audio dealer.
- Install the antenna cord away from the power and speaker cords as these could generate noise. Do not install the loop antenna so that it touches the rear of the unit.

Speaker cord connection

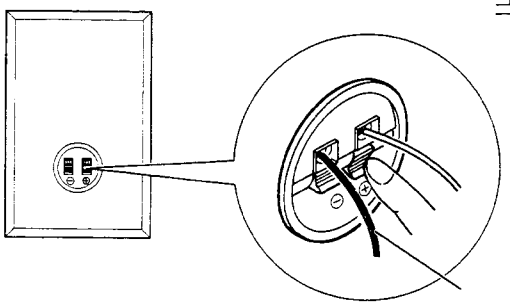
- Use the speaker cords provided to connect the deck/amp and speakers.



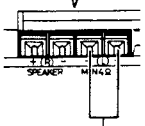
Deck/amp unit



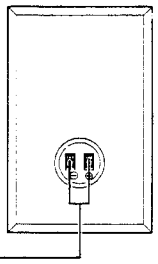
Right speaker (rear side)



Connect the cord marked with a white line to the (–) terminal.



Left speaker (rear side)

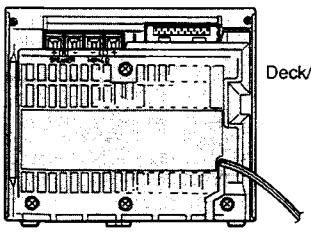


Speaker cord provided

- Connect the cord from the speaker on the left to the (L) terminals and the cord from the speaker on the right to the (R) terminals.

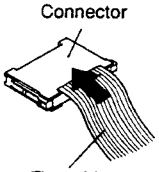
System connection

- Connect the flat cable connected to CD/tuner unit to the deck/amp unit.

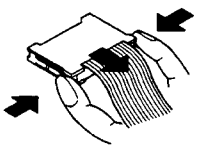


Deck/amp unit

- When connecting

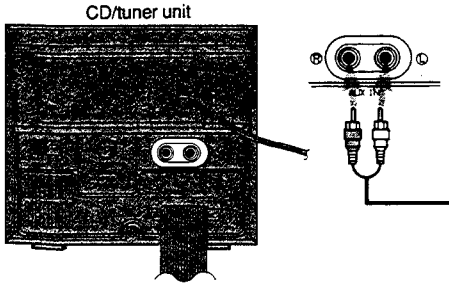


- When disconnecting



Connection of external audio units

CD/tuner unit



RCA pin cord (option)

Record player (with built-in equalizer)

Power supply

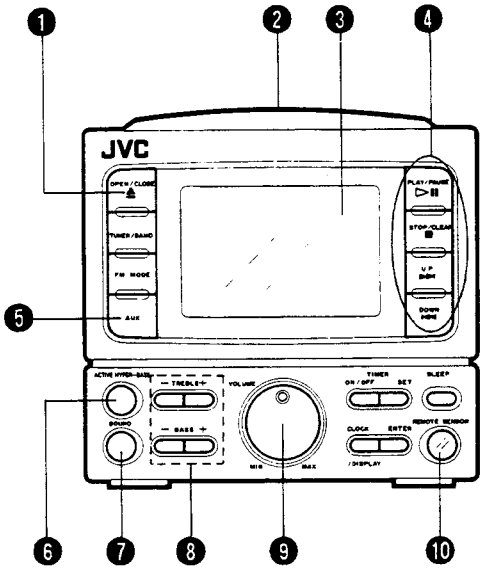
- Connect the AC power cord after all other connections have been made.
  When the plug is inserted in an outlet the STANDBAY lamp on the tape deck lights.

Notes:
- When there is a power failure or the AC power cord is disconnected, the timer/clock setting is erased from memory. Reset the clock when the power supply is restored.
- Do not block the ventilation holes of the deck/amp unit so that heat can escape. Do not install the unit in a badly ventilated place.

NAMES OF PARTS AND THEIR FUNCTIONS

CD player/General section

❶ CD door OPEN/CLOSE button (⏏)
Press this button after setting the POWER button to ON.
❷ CD door
❸ Display window
① SIDE [A]/[B] indicator
② Music calendar display
③ AUTO EDIT indicator
④ PROGRAM mode indicator
⑤ Repeat playback indicator
⑥ Active HYPER-BASS indicator
⑦ Function/Track number display
⑧ Spectrum analyzer/Bass-treble indicator
⑨ Bass/treble preset indicator
⑩ ORIGINAL indicator
⑪ Playback time display
❹ CD operation buttons
PLAY/PAUSE button (▷▮▮):
Press to play a disc and to stop temporarily.
STOP/CLEAR button (■):
Press to stop playing a disc and to cancel programmed playback.
This also sets the CD mode.
CD search buttons (⏮, ⏭)
Press to locate the beginning of tunes and to start forward and reverse search operations.
❺ AUX button
❻ ACTIVE HYPER-BASS button
❼ SOUND button
❽ TREBLE • BASS controls
❾ VOLUME control and indicator
❿ Remote sensor section



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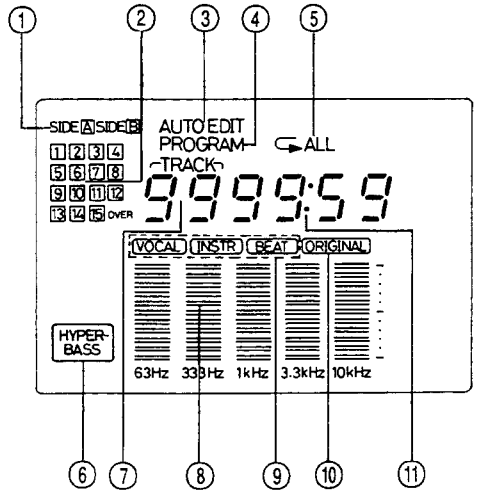
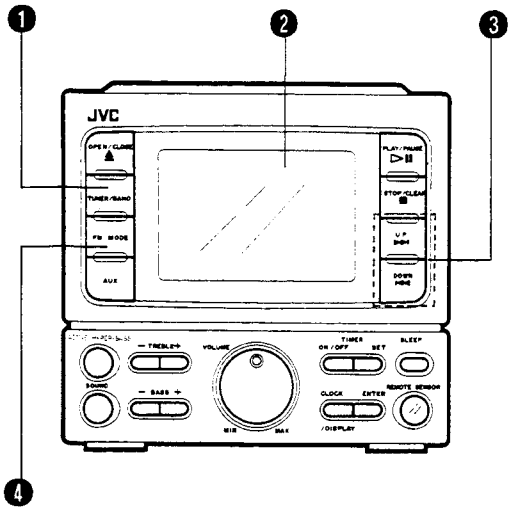
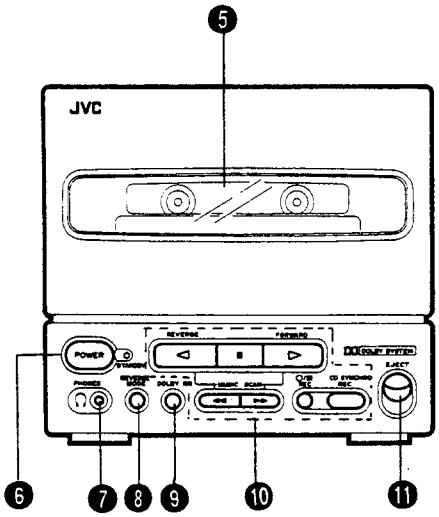
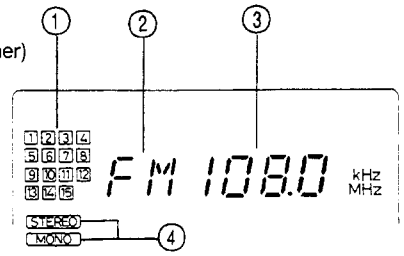


Tuner/Deck section

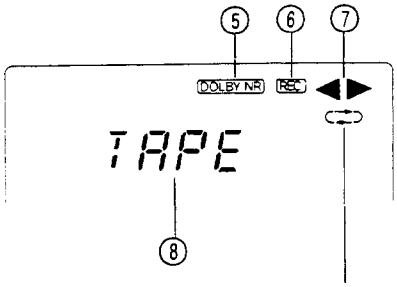




❷ (When using the tuner)



(When using the tape deck)



❶ TUNER/BAND button
- Press to select the tuner mode.
- Press to select the band (FM/AM).

❷ Display window
- ① Preset station display
- ② Band indicator (FM/AM)
- ③ Radio frequency display
- ④ FM mode indicator
- ⑤ DOLBY NR indicator
- ⑥ Recording indicator (REC)
- ⑦ Tape direction indicator (◄, ►)
- ⑧ Function indicator
- ⑨ Reverse mode indicator (⇄ / ⇄ / ⇄)

❸ TUNING button (UP/DOWN)

❹ FM MODE button

❺ Cassette holder

❻ POWER button & STANDBY indicator
Press to switch the power on or off.

❼ PHONES jack (3.5 mm dia. stereo mini plug)
Connect headphones (impedance 16 Ω - 1 kΩ) to this jack. The speakers are automatically switched off when headphones are connected.

❽ REVERSE MODE button

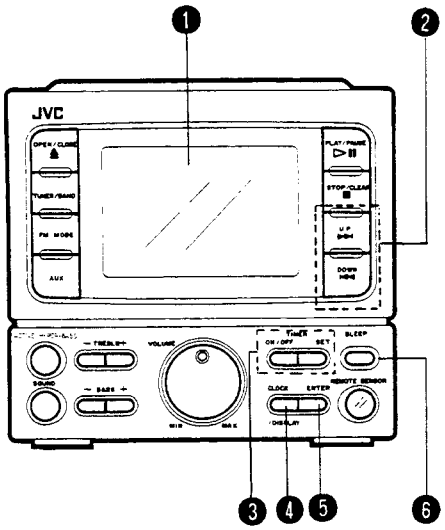
❾ DOLBY NR button

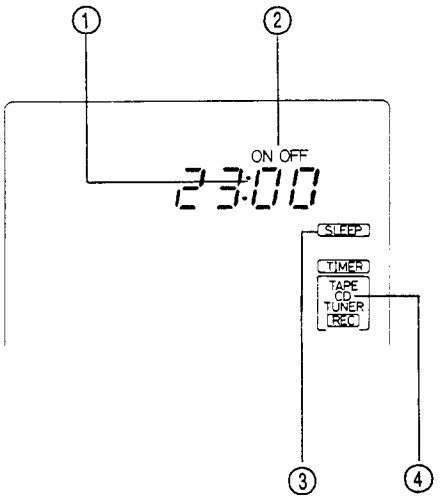
❿ Cassette operation buttons

◄◄	:	Press to fast wind the tape from right to left/Music scan.
◁	:	Press to play back the tape in the reverse direction.
■	:	Press to stop the tape and to cancel the Multi edit mode. This also sets the TAPE mode.
▷	:	Press to play back the tape in the forward direction.
►►	:	Press to fast wind the tape from left to right/Music scan.
O/II REC	:	Press to set the unit to the record or record- pause mode.
CD SYNCHRO REC	:	Press to start CD edit recording/synchro recording.

⓫ EJECT button

Timer/Clock section





❶ Display window
  ① Time display
  ② Timer indicator (ON/OFF)
  ③ SLEEP indicator
  ④ Timer mode indicator
❷ TIMER buttons (UP/DOWN)
  Set the time or timer setting.
❸ TIMER button (ON/OFF-SET)
  Set to timer setting or timer ON/OFF (to reset or cancel the timer).
❹ CLOCK/DISPLAY button
  Set the time or display the current time.
❺ ENTER button
  Set the time or timer setting.
❻ SLEEP button

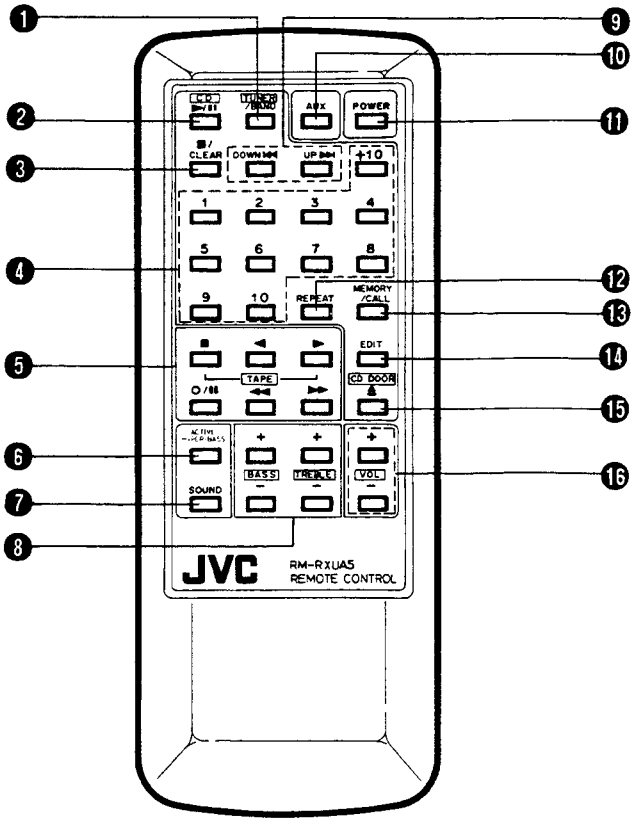
REMOTE CONTROL UNIT

Using the remote control unit

To use the remote control unit, point it at the REMOTE SENSOR and press the buttons gently and firmly. Remote control operation is possible within about 7 m (approx. 23 ft). However, since the remote control range is less when the unit is used at an angle, use directly in front of the REMOTE SENSOR, as far as possible.
Do not expose the REMOTE SENSOR to strong light (direct sunlight or artificial lighting) and make sure that there are no obstacles between the REMOTE SENSOR and the remote control unit.

The following operations can be performed using the remote control unit.

- **Check the functions of the operation buttons carefully and operate them correctly.**

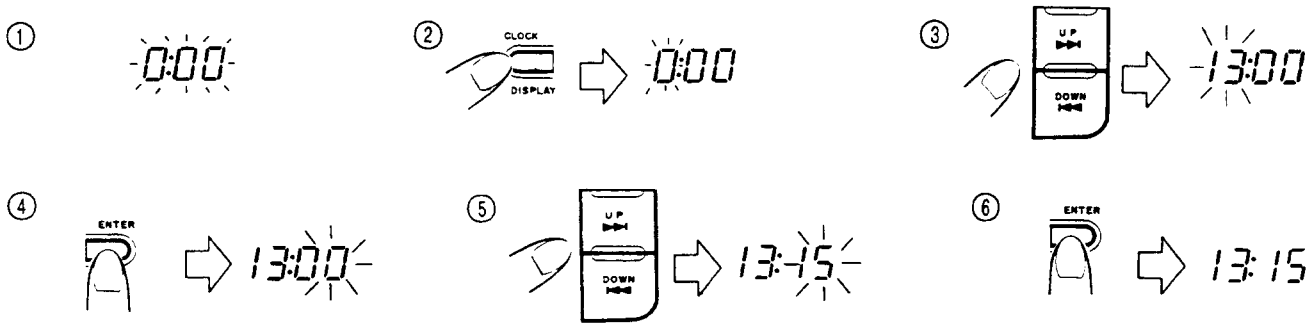


❶ **TUNER/BAND button**
❷ **CD ►/II: CD mode/play/pause button**
❸ **■ /CLEAR: Stop/clear button**
❹ **Track (tune) number buttons (No. 1 - No. 10, +10)**
  Preset station buttons (No. 1 - No. 10, +10)
❺ **Cassette operation buttons**
  ■ : Stop button
  ◄ : Play button (reverse direction of tape)
  ► : Play button (forward direction of tape)
  O/II : Record/Record-pause button
  ◄◄ : Fast wind (from right to left)/Music scan button
  ►► : Fast wind (from left to right)/Music scan button
❻ **ACTIVE HYPER-BASS button**
❼ **SOUND button**
❽ **BASS/TREBLE buttons**
❾ **CD search/UP and DOWN button (⏮, ⏭)**
  • To scan to the beginning of a tune and to start forward or reverse search when playing a CD.
  • Tuning when listening to radio broadcasts. (Also to set the time and timer.)
❿ **AUX mode button**
⓫ **POWER button**
⓬ **REPEAT button**
⓭ **MEMORY/CALL button**
⓮ **EDIT button**
⓯ **CD DOOR button (⏏)**
⓰ **VOLUME buttons**
  – : Use to decrease the volume.
  + : Use to increase the volume.

CLOCK ADJUSTMENT

Setting the current time (when the UX-A5 is used for the first time)

(Example: to set the clock to 13:15.)



① Connect the AC power cord; "0:00" will blink in the display.
- Set to the standby mode; do not press the POWER button.

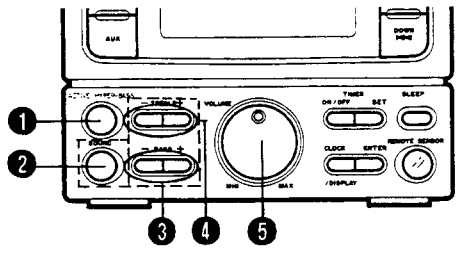
② Press the CLOCK/DISPLAY button for 2 sec. or more: the hour's digits will blink.
③ Set to 13:00 by pressing the TIMER buttons (UP/DOWN).
④ Press the ENTER button; the minute's digits will blink.
⑤ Set to 13:15 by pressing the TIMER buttons (UP/DOWN).
⑥ Press the ENTER button; the time will light continuously in the display.

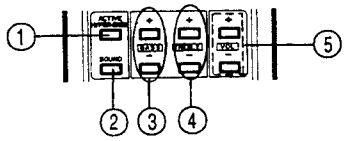
- To set to the nearest second... Press the ENTER button when you hear the time signal from a TV or radio.

Notes:
- Before performing timer recording or playback, it is necessary to set the current time.
- It is recommended to set the current time with the power switch set to STANDBY so that the current display mode is maintained.
- When the power cord is plugged in again after being disconnected or power is restored after a power failure, "0:00" will blink in the display. Set the current time again.
- Press the CLOCK/DISPLAY to display the current time during CD play, tape play or radio reception. The current time will be displayed for 10 sec. after which the display returns to the previous mode.

AJUSTING THE VOLUME AND TONE CONTROLS

Preparations:
- Turn on the power by pressing the POWER button on the deck/amp unit or on the remote control.
- When adjusting the bass/treble, first use the SOUND button to set the unit to the "original bass/treble setting mode."





❶① ACTIVE HYPER-BASS button
Toggles the active hyper-bass function on and off. When the function is turned on HYPER-BASS appears in the display window and the bass level is boosted.

❷② SOUND button
Selects the bass/treble mode. To adjust the high and low frequency response, select the "original bass/treble setting mode."

❸③ BASS control
Boosts or attenuates the 63 Hz and 333 Hz frequency bands.

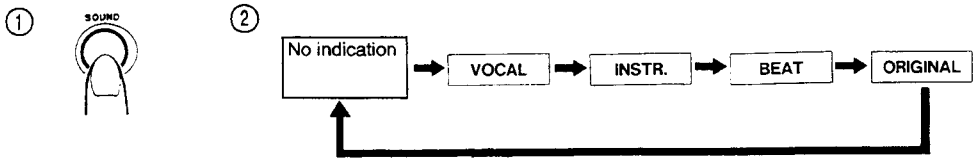
❹④ TREBLE control
Boosts or attenuates the 3.3 kHz and 10 kHz frequency bands.

❺⑤ VOLUME control
When the remote control is used to adjust the volume, the VOLUME knob's red indicator lights and the knob turns by itself.

Notes:
1. To protect your speakers, be sure to turn the volume down all the way before turning on the unit.
2. The BASS and TREBLE controls have no effect if VOCAL, INSTR. or BEAT appears in the display window.

Recalling a preset bass/treble pattern

- The bass/treble mode includes three preset sound-stage patterns. Choose the one which best suits the source material.



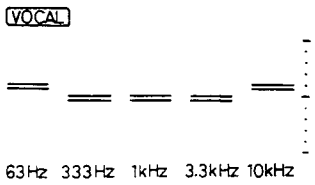
① Press the SOUND button to select the bass/treble mode of your choice.
② The mode and the display changes each time the button is pressed.

No indication:	Original bass/treble setting mode
VOCAL: **INSTR.:** **BEAT:**	Preset bass/treble modes
ORIGINAL:	Original bass/treble setting stored in memory (The initial setting is flat.)

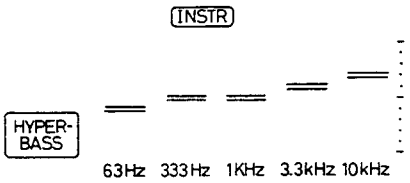
- HYPER-BASS is turned on automatically if INSTR. is selected.
- The initial setting is the BEAT mode.
- The bass/treble display indication automatically changes to the spectrum analyzer display if no key is pressed for five seconds. Press the SOUND button to make the bass/treble display indication reappear.

• Bass/treble preset patterns

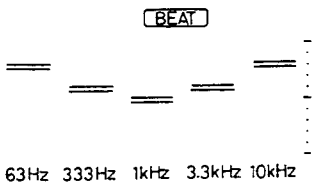
Vocal:
Suitable for light popular music or vocals.



Instrumental:
Suitable for listening to music with sharp highs and a clear sound.

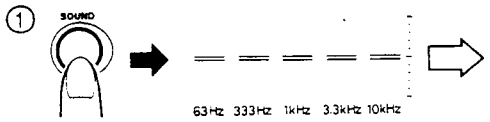


Beat:
Suitable for music with a strong beat like rock or disco.

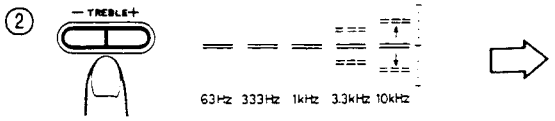


Storing an original bass/treble setting in memory

- You can set the bass and treble controls as you like and then store the setting in memory.
  Note that if you turn HYPER-BASS on when making your level adjustments, this status will be stored as part of the setting.

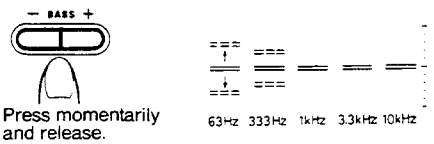


Within 5 seconds



Press momentarily and release.

- Each press on the + side raises the setting one step, up to a maximum of 5
- Each press on the – side lowers the setting one step, up to a maximum of 5



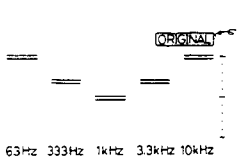
Press momentarily and release.

- Each press on the + side raises the setting one step, up to a maximum of 5
- Each press on the – side lowers the setting one step, up to a maximum of 5

① Press the SOUND button to select the "original bass/treble setting mode."
② Adjuste the treble and bass levels within five seconds.

③

• Hold down for more than 2 seconds



This indication lights to show that the settings are stored in memory

Example: Bass and treble both set to maximum

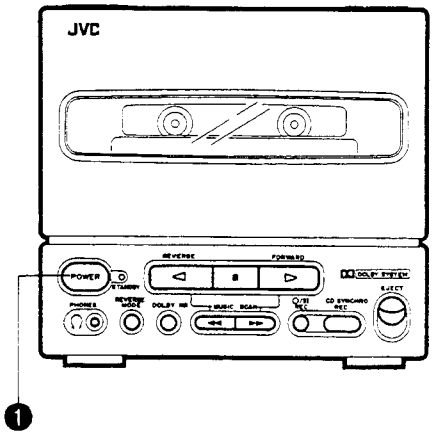
③ Store the settings in memory within 5 seconds.
- The 1 kHz is not adjustable using the tone controls.

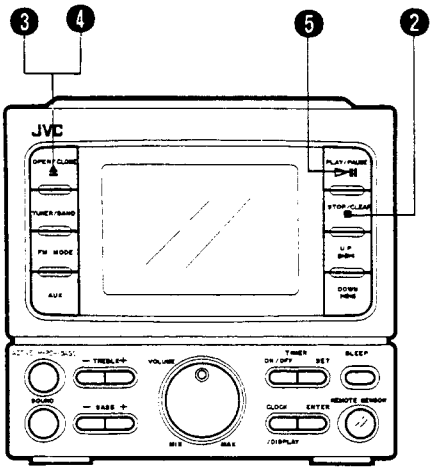
Notes:
- Pressing the BASS or TREBLE button when the ORIGINAL indication is displayed automatically switches the unit to the "original bass/treble setting mode."
- **The spectrum analyzer display**
  This display shows the level distribution of different frequency elements (the spectrum distribution) in the source signal.
- Each time you store a new ORIGINAL bass/treble setting in memory, the previous one is erased.
- If you set the bass and treble in the "original bass/treble setting mode" but then switch to another pattern without saving your settings, they are erased.
- Should the spectrum analyzer display suddenly reappear before you have entered your new pattern, reenter your settings starting from step ① above.
- The bass and treble settings affect the sound you hear when listening to music through speakers or headphones. They have no effect on signals recorded on tape.

PLAYING COMPACT DISCS

Playing an entire disc ... The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes 57 seconds.

Operate in the order shown





8-cm (3-3/16") "CD singles"
- 8-cm (3-3/16") compact discs can be used in this unit without an adapter.

❶ Set to on.
❷ Set to the CD mode.
- When a CD is first loaded, the total number of tracks (tunes) and total playing time are displayed.

❸ Press to open the CD door.
❹ Load a disc with the label side facing up. Press to close the CD door. (The door can be closed by pressing the ▷II button.)
❺ Press to start play.
- As tunes are played, their track numbers go out one by one.

Note:
When the CD door is closed by pressing the ▷II button, the CD starts as soon as the CD door is closed.

To stop play

- To stop in the middle of a disc
  During playback, press the STOP/CLEAR button to stop play.

- The total number of tracks (tunes) and total playing time are displayed.

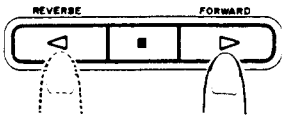
- **To stop a disc temporarily**

  Press the PLAY/PAUSE button to stop play temporarily. When pressed again, play resumes from the point where it was paused.

Automatic source selection

- Simply press the play button corresponding to the required source to listen to a CD or tape.

CD play

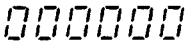


Tape playback

Automatic source selection allows you to automatically select the source corresponding to the button pressed. (The remote control unit also has this automatic source selection function.)

Cautions:
- To change discs, press the STOP/CLEAR button; check that the disc has stopped rotating completely before unloading it.
- Since the disc cannot be unloaded when the power is set to STANDBY, switch the power on and press the OPEN/CLOSE button to unload the disc.

Notes:
- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down.
  In such a case, check the disc and insert again after cleaning the disc or turning it over.

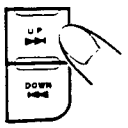


- **Do not use the unit at excessive high or cold temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).**
- After playback, unload the disc and close the CD door.
- If mistracking occurs during play, lower the volume.
- Mistracking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations.

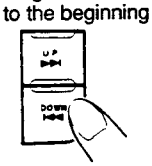
Skip playback

- During playback, it is possible to skip forward to the beginning of the next tune or back to the beginning of the tune being played back or the previous tune; when the beginning of the required tune has been located, play starts automatically.

To listen to the next tune ...
Press the ▶▶| button once to skip to the beginning of the next tune.

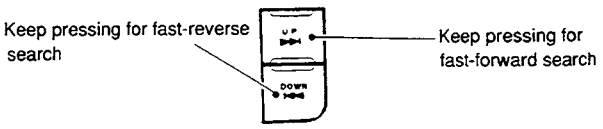


To listen to the previous tune ...
Press the |◀◀ button to skip to the beginning of the tune being played back and press again to skip to the beginning of the previous tune.



Search playback (to locate the required position on the disc)

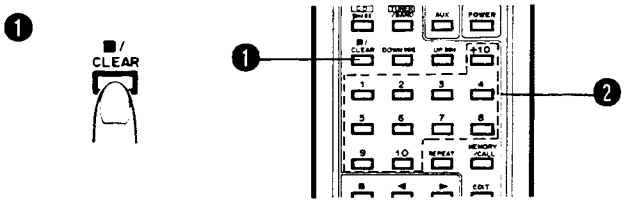
- The required position can be located using fast-forward or reverse search while playing a disc.



- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

Direct access playback (using the remote control)

- Pressing any of the track number buttons will start play from the beginning of the designated tune, without your having to press the CD ▶/II button. (This function cannot be used during programmed play.)



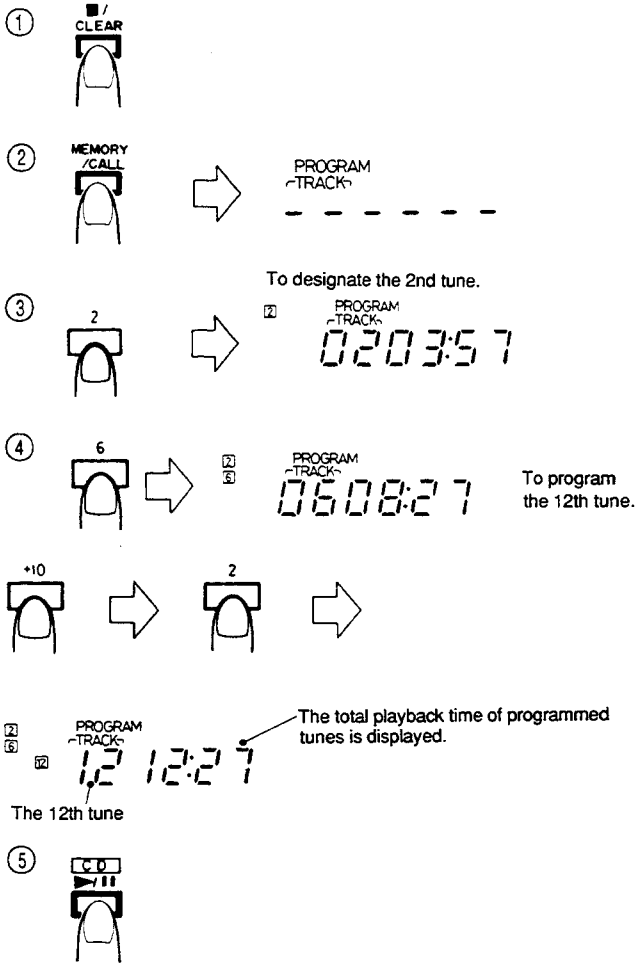
❶ Press the ■/CLEAR button to set to the CD mode.
❷ Designate the required tune using the track number buttons.
- To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) number.
- To designate tune number 11 or higher, press the +10 button the required number of times, then a track number button. (Example: To designate the 25th tune, press the +10 button twice, then press track number button 5.)

  * +10 button:
  Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

- **To skip to another tune during play**
  When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

Programmed play (using the remote control)

- Up to 20 tunes can be programmed to be played in any required order.
  The total playing time of programmed tunes is displayed (up to 99 minutes, 59 seconds).
  (Example: When programming the 2nd tune to be played first, and the 6th tune next, then the 12th tune, etc.)



① Press the ■/CLEAR button.
② Press the MEMORY/CALL button to set to the programming mode.
③ Press to designate the required track number.
④ Designate the remaining tunes by pressing the track number buttons.
⑤ Press the CD ►/II button when programming is completed. Programmed playback starts.

To clear the programmed tunes ...
Press the ■/CLEAR button before playing a disc. During programmed playback, press this button twice. When the CD door is opened, programmed tunes are cleared automatically.

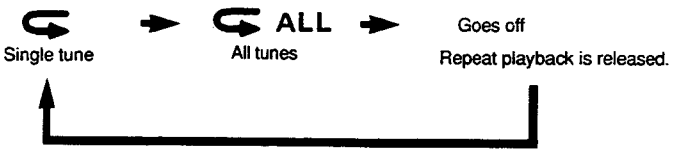
To confirm the details of a program...
When the MEMORY/CALL button is pressed, the tunes making up the program are displayed in programmed order.

Notes:
1. If the total playing time of the programmed tunes exceeds 99 minutes 59 seconds, the total playing time indication will go out.
2. Programming 21 or more tunes is impossible.
3. When a disc with 16 or more tunes is loaded, the "OVER" indicator will appear.
4. When performing timer playback in the order of "Programmed play", step ⑤ above is not required.

Repeat play (using the remote control)

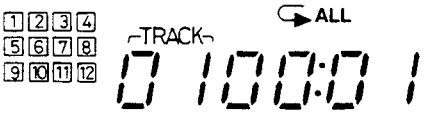
Press the REPEAT button before or during play. A single tune or all the tunes can be repeated.

Whether a single tune or all tunes are to be repeated can be specified. Each time the REPEAT button is pressed, the mode will change from a single tune (⊂), to all the tunes (⊂ ALL), to the clear mode, in this order.



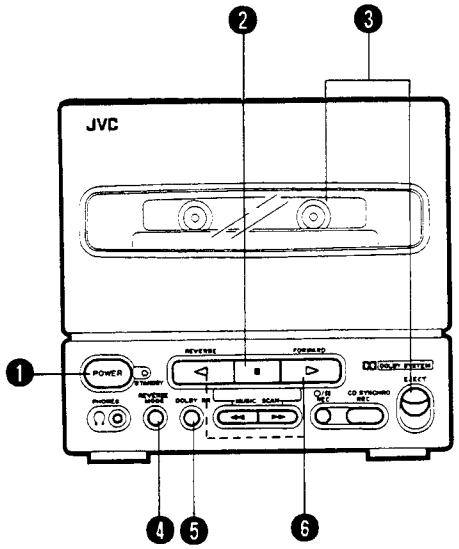
- **Repeat playback of a single tune (⊂)**
  The tune being played back will be heard repeatedly.

- **Repeat playback of all tunes (⊂ ALL)**
  When playing back an entire disc or programmed tunes, all tunes or the programmed tunes will be heard repeatedly.



CASSETTE PLAYBACK

Operate in the order shown



❶ Set to on.
❷ Set to the TAPE mode.
❸ Load a cassette with side A facing out.
❹ Select the reverse mode (⇄ / ⇄ / ⇄).
❺ Set the DOLBY NR switch as required.
❻ Press to start playback.

- With automatic source selection, playback can be started from the deck.

- When the tape is played back with the reverse mode set to the ⇄ (single side play) or ⇄ (both side play) mode, the tape stops automatically at the end of tape after playing one side or both sides.

MUSIC SCAN

- The beginning of the current tune or the next tune can be located using the music scan facility.

① Press the ▷ or ◁ button for tape playback.
② Press the ►► or ◄◄ button for music scan.

	• To the start of the next tune	• To the start of the tune being played back
(Forward (▷) direction playback)		
(Reverse (◁) direction playback)		

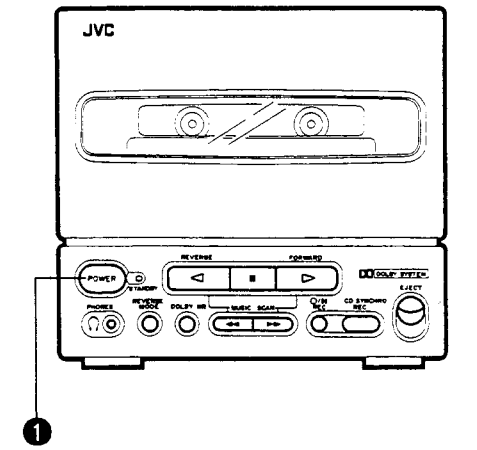
One of the two tape direction indicators blinks during music scanning.

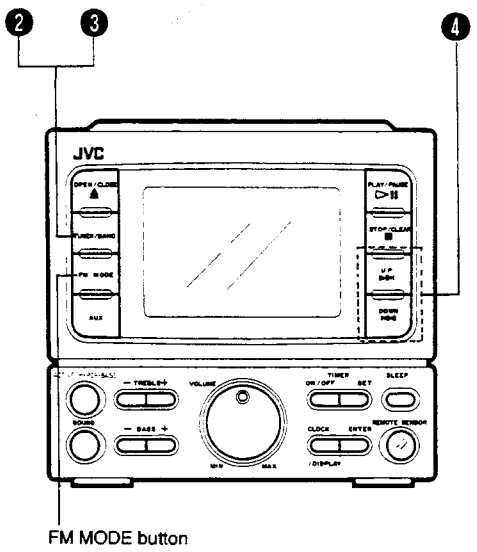
③ When music scanning is completed, playback will start automatically.
- To skip two tunes or more, repeat the above steps ② and ③.

Notes:
With the following types of tape, the Music Scan mechanism may not operate correctly. This is not a malfunction; use the Music Scan facility only with suitable tapes.
- Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portion during tunes.
- Tapes with short non-recorded sections.
- Tapes with high-level noise or hum between tunes.

RADIO RECEPTION

Operate in the order shown.





❶ Set on.
❷ Press the TUNER/BAND button; a band and radio frequency will be shown in the display.
❸ Select the band (FM or AM).
❹ Tune to the required station.

FM MODE button

STEREO:
Set to this position when listening to or recording an FM stereo broadcast.
MONO:
Set to this position when FM stereo reception is noisy.

- **Seek tuning**
  Press the UP or DOWN button for one second or more; the unit enters the seek tuning mode and tunes to higher or lower frequencies, and when the broadcast is received, it stops tuning automatically and the broadcast can be heard.

Notes:
- When seek tuning to the required station is not possible because it is broadcasting too weak a signal, press the UP or DOWN button momentarily to perform manual tuning.
- When the power is set to STANDBY, or another mode (TAPE or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER/BAND button is pressed, the same station will be heard.

Using the antennas

FM: Connect the provided FM feeder antenna (see page 7).
AM: Adjust the position of AM loop antenna.

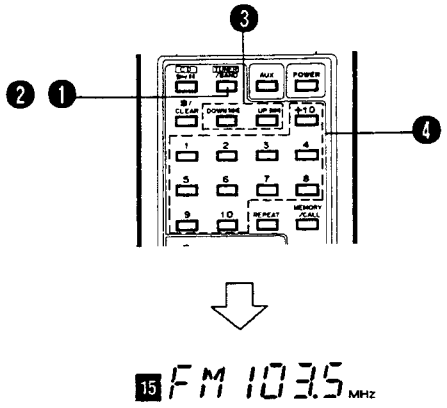
BEAT CUT switch

When beats are produced while listening to a broadcast or recording, activate the BEAT CUT switch so that the beats are eliminated or minimized.

Presetting stations (using the remote control unit)

15 stations in each band (FM and AM) can be preset as follows:

- Example (when presetting an FM station broadcasting on 103.5 MHz to preset button "15")



❶ Press the TUNER/BAND button.
❷ Select the FM band using the TUNER/BAND button.
❸ Tune to the required station.
❹ Press preset button "+10", then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station has been preset.)

- Repeat the above procedure for each of the other stations, using a different preset button each time..
- Repeat the above procedure for the AM band.

- **To change preset stations**
  Perform step ❹ above after tuning to the required station.

Notes:

- The previous preset station is erased when a new station is preset as the new station's frequency replaces the previous frequency in memory.
- When listening to an AM broadcast, noise may be heard if the remote control is used.
- All preset stations will be erased when the power cord is disconnected or a power failure occurs for more than 24 hours. In such cases, preset them again.

Preset tuning (using the remote control unit)

- The stations must be preset before this operation can be performed.

① Press the TUNER/BAND button
② Select the band (FM or AM) using the TUNER/BAND button.
③ Press the required preset station buttons (No.1 – No.10, +10).

- The preset station number and frequency corresponding to the button pressed are shown.

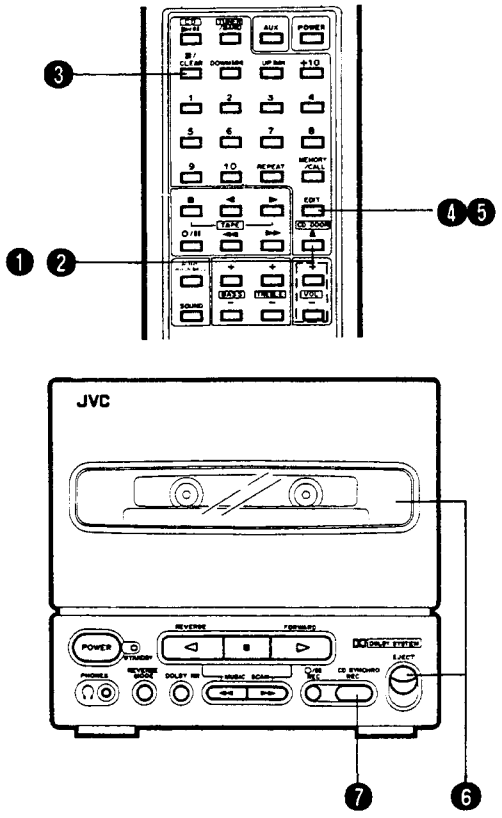
RECORDING

- In recording, the ALC circuit automatically optimizes the recording level; adjustment of the recording level is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

CD edit recording (for CDs with up to 20 tunes)

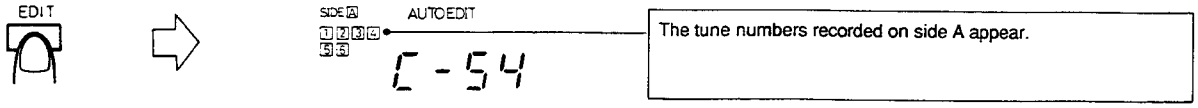
- By checking the total playing time of the CD, a microcomputer in the unit automatically calculates the optimum length (recording time) of the tape to be used, displays the required tape length, and divides the tunes on the disc into two groups to be recorded on the two sides of the tape so as to minimize tape waste.

Operate in the order shown

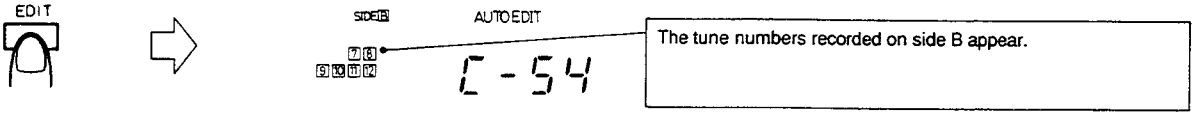


❶ Press to open the CD door
❷ Load a disc and press to close the CD door.
❸ Set to the CD mode.

❹ Press the EDIT button once.



❺ Press the EDIT button again.



❻ Insert a cassette with a suitable length (recording time) with side A facing out.
- The tape length can be set from the remote control. (See below.)

❼ Press the CD SYNCHRO REC button to start CD edit recording.
- Recording starts in the forward direction (on the side facing out).
- During edit recording, the leader tape section (approx first 10 sec.) is wound automatically and then recording starts. The reverse mode is set to ⇄ mode automatically.

- The tape stops automatically when the CD has been played.

- **To change the tape length (recording time)**
  When the EDIT button is pressed with a CD loaded, the tape length required to record the entire disc is displayed (C-46, C-54, C-60, C-74 or C-90).
  At this time, the displayed tape length can be changed by pressing the track number buttons.

Example: To change to C-50
Press the +10 button four times, and within 5 seconds, press the 10 button.
When the length of the tape is changed, some of the tunes that were to be recorded on side A may be indicated as to be recorded on side B or vice versa, according to the tape length specified.
Depending on the tape length specified, some tunes may not be recorded on the tape. Set the tape length (recording time) so that the entire disc can be recorded.

- **When editing a disc with 16 to 20 tunes**
  CD editing can be used to record discs containing up to 20 tunes, however, the music calendar shows up to only 15 tunes.
  As the 16th to 20th tunes will not appear in the music calendar display (the "OVER" indicator will light), be sure to check the tunes you have recorded after completing editing.

- **Set the DOLBY NR as required. The DOLBY NR indicator lights.**

Note:
The optimum sound quality will not be obtained if different DOLBY NR switch settings are used during recording and playback.

Notes:
- When a disc with 21 tunes or more is loaded, "C---" will appear in the display. In such a case, set the required tape length using the track number buttons on the remote control.
- In CD edit recording blanks of approx. 4 seconds will automatically be left between tunes on the recorded tape.

When automatic spacing between tunes is not required ...
Perform the following.
1. Press the ▷/II PLAY/PAUSE button of the CD player twice. The CD Player enters the pause mode.
2. Press the CD SYNCHRO REC button to start recording.

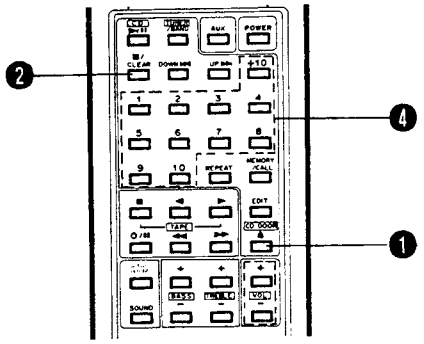
Note:
- Depending on the disc used, blanks of a specified length may be left between tunes

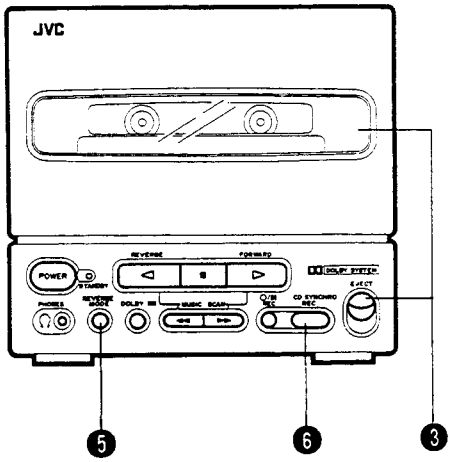
- **After use**
  Press the ■/CLEAR button to release the CD edit recording mode. (The CD edit recording mode is also released when the CD door is open.)

Synchronized recording with the CD player

- In this system, the CD player starts playback when the cassette deck enters the recording mode.

Operate in the order shown





❶ Load a disc and close the CD door.
❷ Set to the CD mode.
❸ Load a cassette with side A facing out. (Wind past the leader tape before starting recording.)
❹ When programmed playback is required, program the required tunes using the remote control. (See page 30.)
- Select tunes with a total playing time which does not exceed the tape length.

❺ Select the required reverse mode (⇄ or ⇄)
❻ Press the CD SYNCHRO REC button; synchronized recording will start.

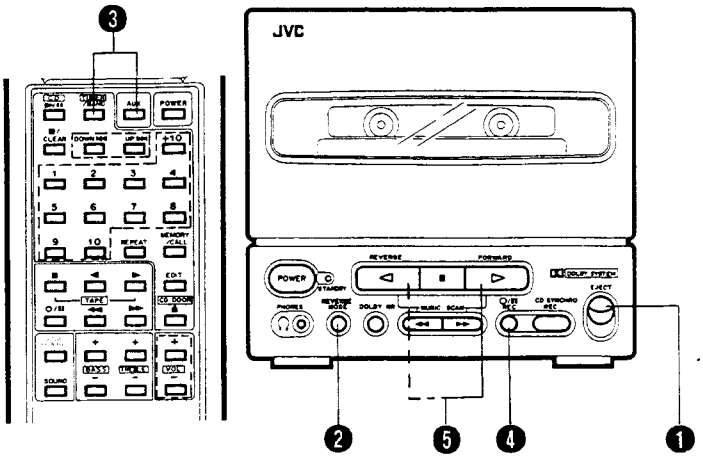
- Recording starts in the forward direction and CD play starts automatically.
- When the CD player has played the disc or programmed tunes, the deck stops automatically.
- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- To stop recording in the middle, press the □ (stop) button of the cassette deck.

- **CD complete recording function (Synchro recording mode only)**
  If the tape is reversed while a CD is being played, recording will be done on the reverse side of the tape as follows:
  * When less than 8 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the previous tune.
  * When more than 8 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the current tune.
- **To record an entire disc in the tune order of the CD**
  After the operations in steps ❶ - ❸ above, press the ▷II button of the CD player while pressing the O/II REC and ▷ buttons simultaneously.

Note:
- During CD edit recording and synchro recording, the PAUSE and SEARCH buttons do not function.

Recording from the radio or an external source connected to the AUX terminals

Operate in the order shown



❶ Load a cassette with side A facing out.
(Wind past the leader tape before starting recording.)
❷ Select the required reverse mode (⇄ or ⇄).
❸ Select the source to be recorded.
TUNER: Press the TUNER/BAND button. Tune to the required station.
AUX: Press the AUX button.
❹ Press the O/II REC button (recording-pause mode).
- The tape direction indicator showing the side to be recorded blinks.
- The function switch is locked and its position cannot be changed.

❺ Press to start recording.

- To stop recording temporarily, press the O/II REC button. To resume recording, press the ▷ or ◁ button corresponding to the tape direction indicator which is blinking.

Note:
- Recording cannot be performed on the side the tape direction indicator of which is not lit.

Erasing

When recording on a pre-recorded tape, the previous recording is automatically erased and only the new material can be heard when the tape is played.
To erase a tape without making a new recording...
Press the ■ (stop) button to set to the TAPE mode, then perform recording.

TIMER OPERATIONS

Timer recording

- The current time must be set correctly before you set timer recording.
- Make sure that the erase protection tabs of the cassette have not been broken off.

Operations

1. Set the POWER button to ON.
2. Load a cassette.
   - Insert the cassette with the side to be recorded facing out.
   - Set the reverse mode button to " ⇄ " or " ⇄ " and set the DOLBY NR button as required.
3. Set the timer start and stop times, set the timer recording mode, then set the required volume, in this order. (Refer to "Setting the timer" on page 50.)
   - Set the timer about a minute before the broadcast to be recorded is scheduled to start.
   - Set the TIMER mode button to TIMER/TUNER [REC].
4. Tune to the station to be recorded. (Refer to page 38.)
5. Set the POWER button to STANDBY.

- **Timer recording will start at preset start time and the power will be switched off at preset stop time.** When timer recording is completed, the timer mode is switched to the "TUNER" (timer reception of broadcast) mode.

- **To cancel timer operation**
  Press the TIMER ON/OFF button so that the timer mode display goes out.

If you do this, timer recording will not start at the timer start time.

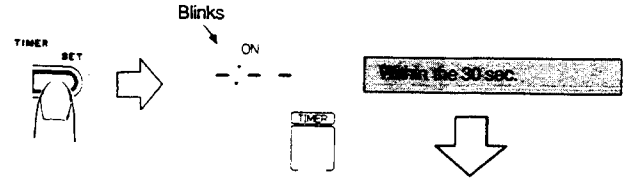
Notes:
Once the timer has been set, the start and stop times, etc., are stored in memory. When timer recording or playback is required at different times, the timer must be set again.

- After setting the timer start and stop times, check that the unit is tuned to the required frequency.
- When the power cord is disconnected or there is a power failure, timer settings will be erased from memory. If this happens, set the current time and perform the timer setting again.

Setting the timer

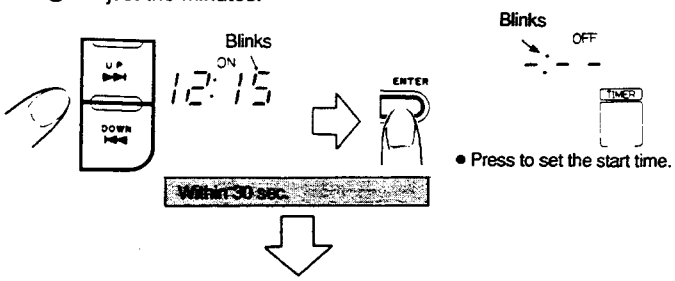
- The current time must be set before the timer can be used.

❶ Press the TIMER SET button.

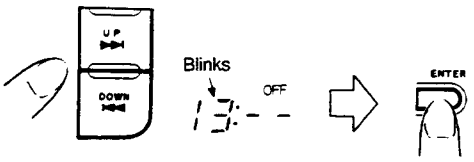


❷ Set the start time
(Example: when the timer start time is set to 12:15.)
① Adjust the hours.

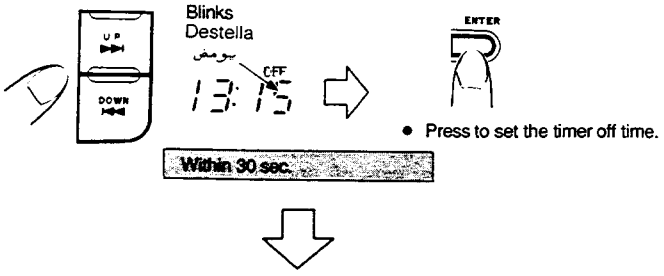
② Adjust the minutes.



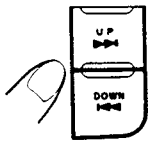
❸ Set the stop time
(Example: when the timer stop time is set to 13:15.)
① Adjust the hours.

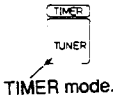


② Adjust the minutes.



❹ Select the TIMER mode.





TIMER mode.

- The selected timer mode is shown in the display.

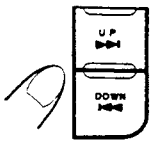
TUNER
↓
CD
↓
TAPE
↓
TUNER
REC

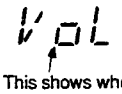
When the UP button is pressed to select the timer mode, the mode changes from the TUNER (timer reception of a broadcast), CD (timer playback of a CD), TAPE (timer playback of a tape), to TUNER/REC (timer recording of a broadcast), in this order.

Within 30 sec.

Blinks

❺ Set the volume.

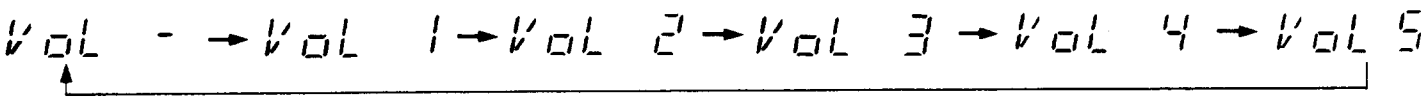




This shows when volume level 1 is selected.

- The selected volume is set.

The playback level is determined by the position of VOLUME control.



The volume decreases to zero at the timer start time, and the sound fades in. (Volume level 5 is approximately the same as when the VOLUME control is set to its center position.)

- The unit enter the previously engaged mode and timer setting is complete.

- **To check the timer setting**

1. Press the TIMER SET button.
2. Press the ENTER button to check the timer mode.
3. When the previous engaged mode is displayed, timer setting has been completed.

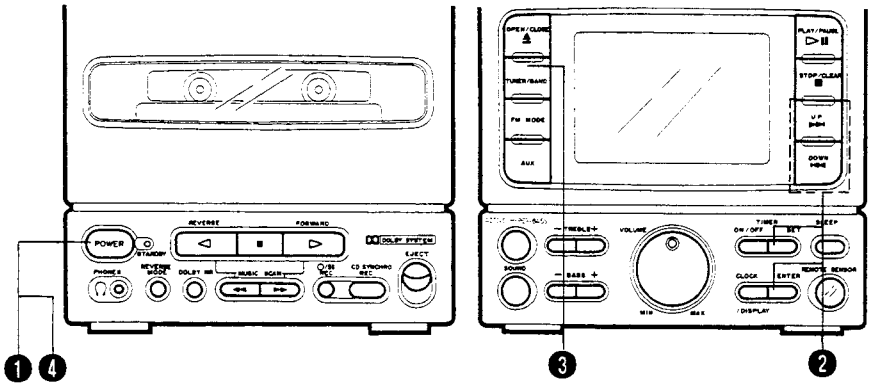
Notes:

- When the timer is set incorrectly or the correct mode is not selected, perform "Setting the timer" from the beginning.
- When the timer is set, "-:--" in the display is replaced by the input digits.
- When the timer stop time is not set, the timer operates for 2 hours and then the unit is switched off. To continue listening after the timer stop time, display the timer stop time, change the hours digits to "-:" using the UP button and press the ENTER button.

Timer playback

- Timer playback of tapes, broadcasts and CDs is possible.

Operations



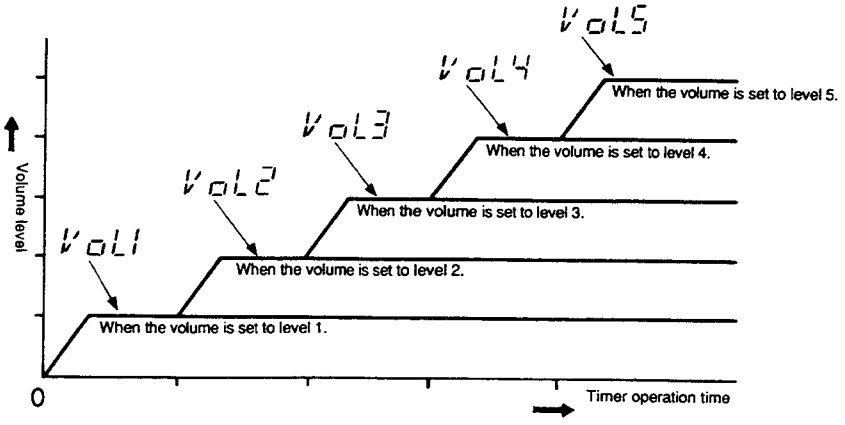
❶ Set the POWER switch to ON.
❷ Set the timer start and stop times, set the timer playback mode, then set the volume, in this order.

Source sound	Timer mode	Operations
CD play	CD	Load a disc.
Tape playback	TAPE	Load a cassette tape.
Broadcast	TUNER	——

- Timer playback of a CD is possible in programmed order. (See page 30.)
- The volume can be set to 5 different levels.

❸ Tune to the required frequency when the timer playback of a broadcast is to be performed.
❹ Switch the power off. (The power is STANDBY and indicator lights.)
- Timer playback will start at the timer start time and the power will be switched off at the timer stop time. The unit remains in the same timer mode even after the power is switched off and the same timer function will be repeated at the same time on the following day.

- Volume setting and fade-in operation



- When the power is switched on, it is possible to fade in the sound from volume level 0 (zero) to the preset volume.
- **To cancel timer operation**
  Press the TIMER ON/OFF button so that the timer mode display disappears. (To set to the timer mode again, press the TIMER ON/OFF button twice so that the timer mode display appears.)

Notes:
- When the volume setting is set to "VoL -" (volume level is not specified), the timer playback volume is set to that before setting the timer.
- To stop during timer playback, press the POWER button to switch the unit off.
- In the fade-in mode, the volume gradually increases from zero.

SLEEP OPERATIONS

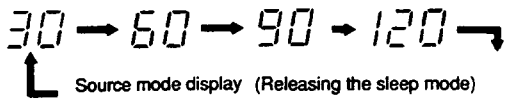
A. Use this when you want to fall asleep while listening to CD, a tape or broadcast.

① Set to the required source

	Operations
CD play	Load a disc and press the ▷II button to play the disc.
Tape playback	Load a cassette and press the ▷ or ◁ button to play back the tape.
Broadcast	Press the TUNER/BAND button to set to the tuner mode and tune to the required frequency.

② Press the SLEEP button to set to the sleep time.

SLEEP is shown in the display



- Sleep times of 30, 60, 90 or 120 minutes can be set. When you release the SLEEP button, the source is displayed after 10 sec.

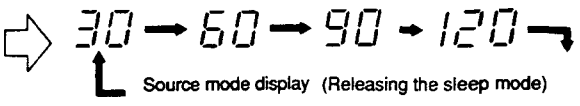
- The sleep operation will start and the power will be switched off after the specified time.

- **Checking the sleep time**
  When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.

- **To cancel the sleep operation**
  Press the POWER button to switch the power off.

B. To fall asleep while listening to CD or a broadcast and to perform timer playback the following morning.

1. Set the timer playback start and stop times.
2. Set the timer mode and volume.
3. Set to the required source (CD, tape or broadcast).
4. Press the SLEEP button to set the sleep time.



- Any required source can be selected when performing the sleep operation and time playback. For example;
  - CD play for sleep operation and broadcast reception for timer playback.
  - Tape playback for sleep operation and CD play for timer playback.

  However, when broadcast reception is selected for both sleep operation and timer playback, the station you were listening to at night will be tuned to the following morning.

4 Location of Main Parts

■ Deck/Power Supply Section

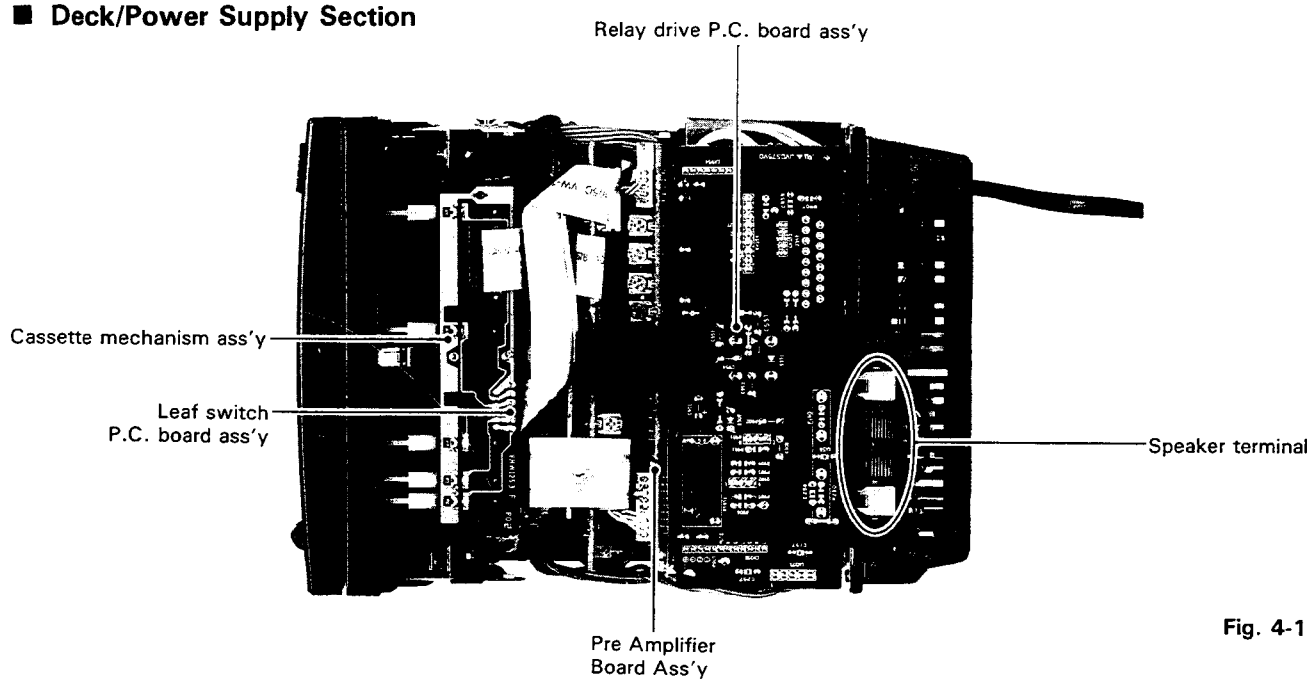


Fig. 4-1

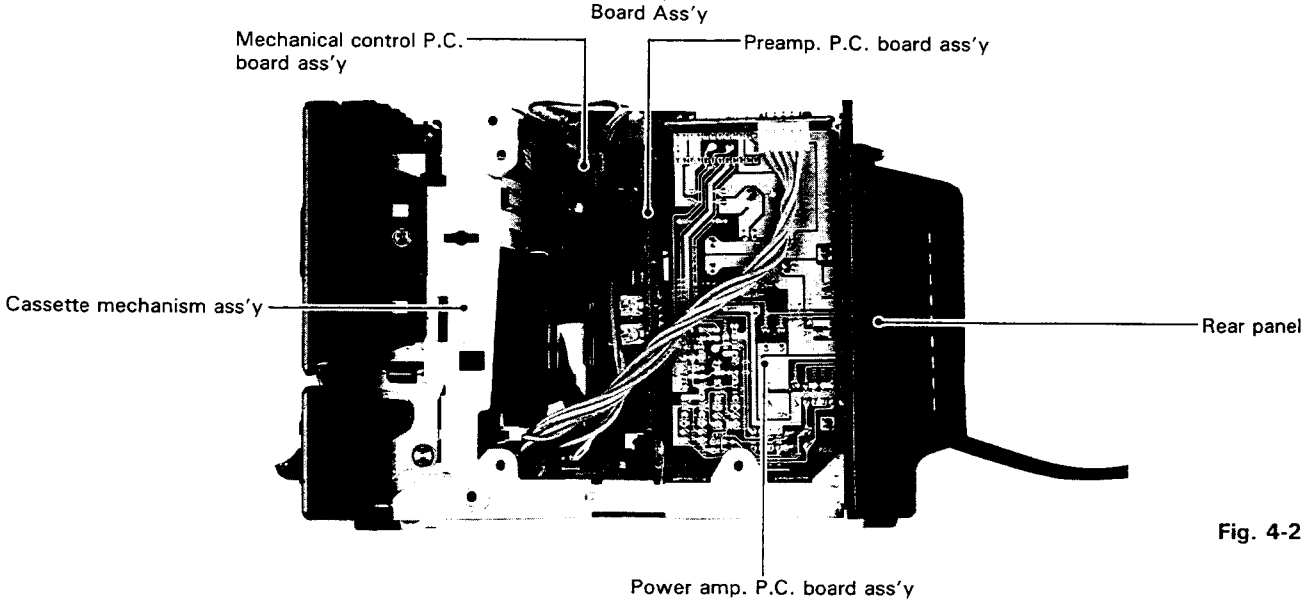


Fig. 4-2

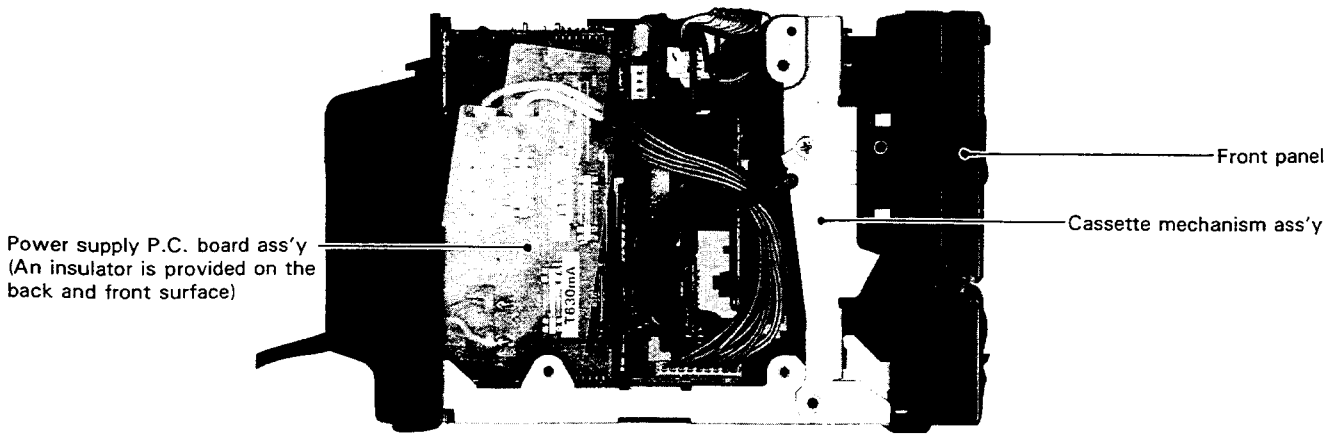


Fig. 4-3

■ Amp./Power Supply Section

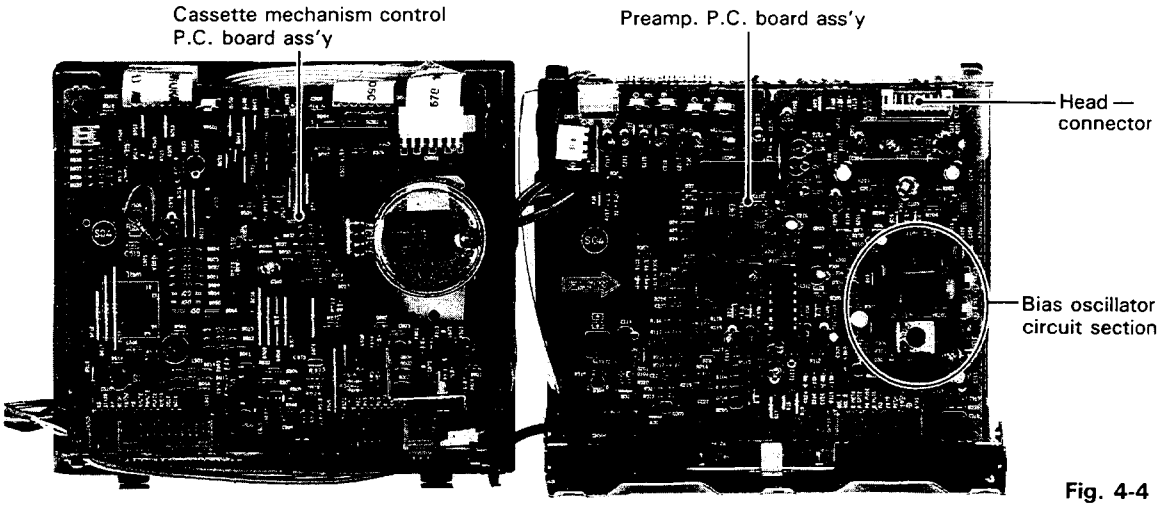


Fig. 4-4

■ CD Unit Section

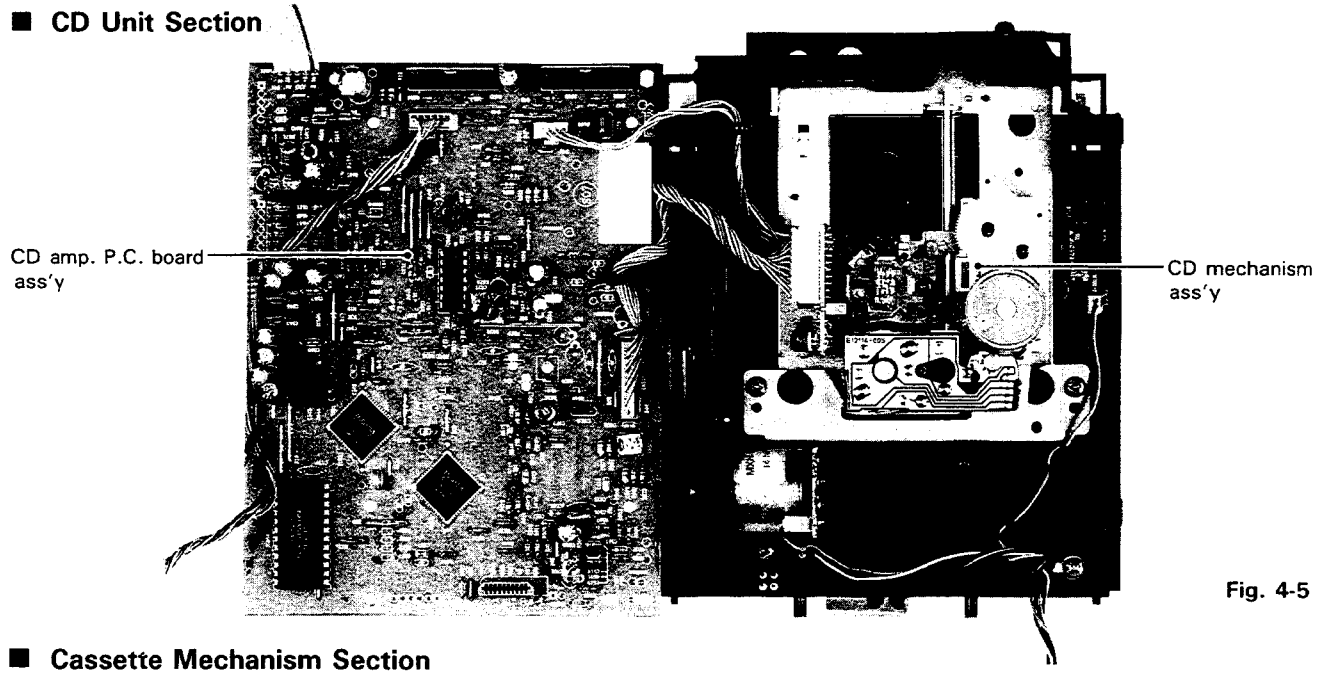


Fig. 4-5

■ Cassette Mechanism Section

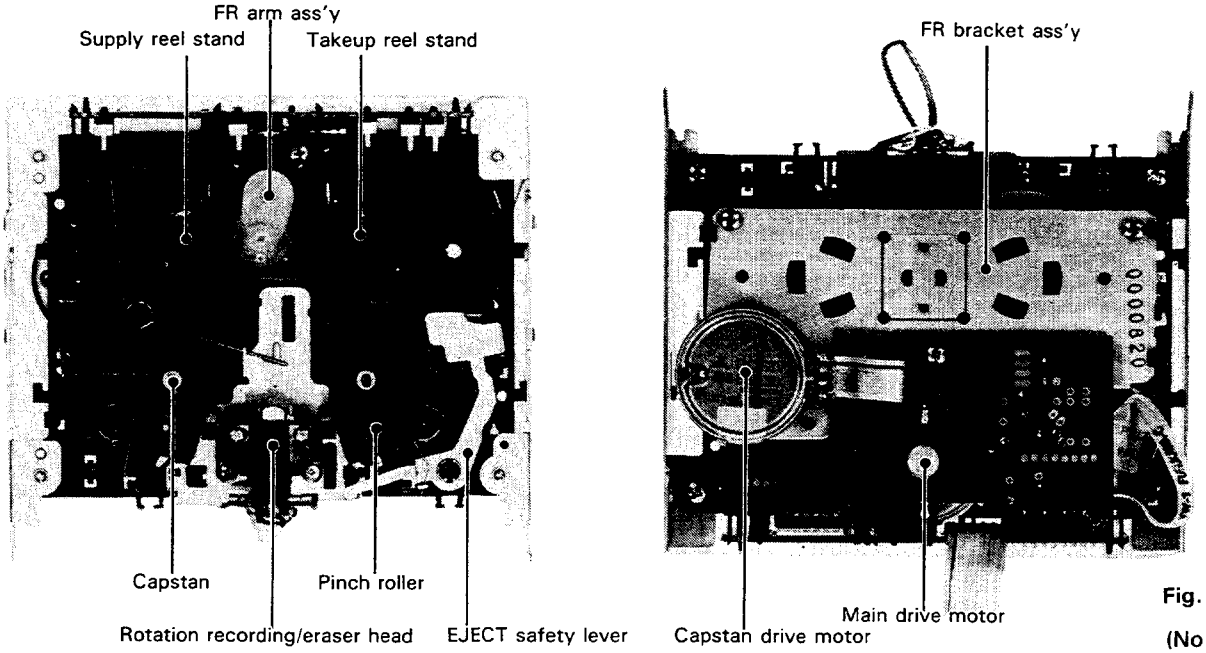


Fig. 4-6

■ CD/Tuner Unit Section

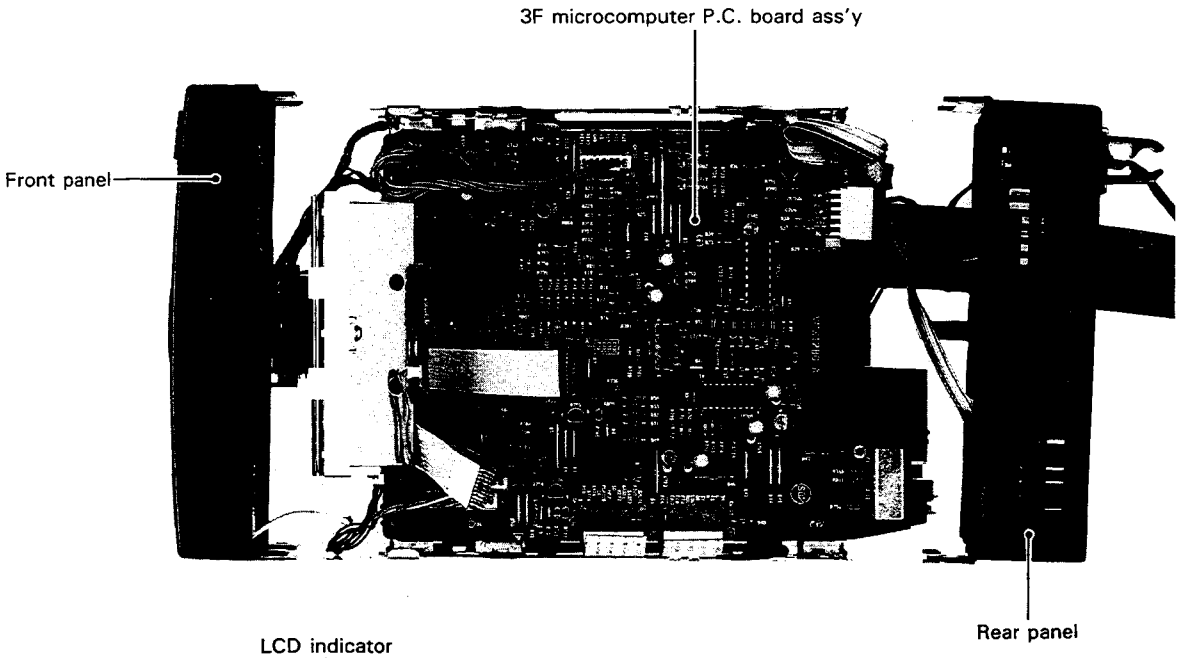


Fig. 4-7

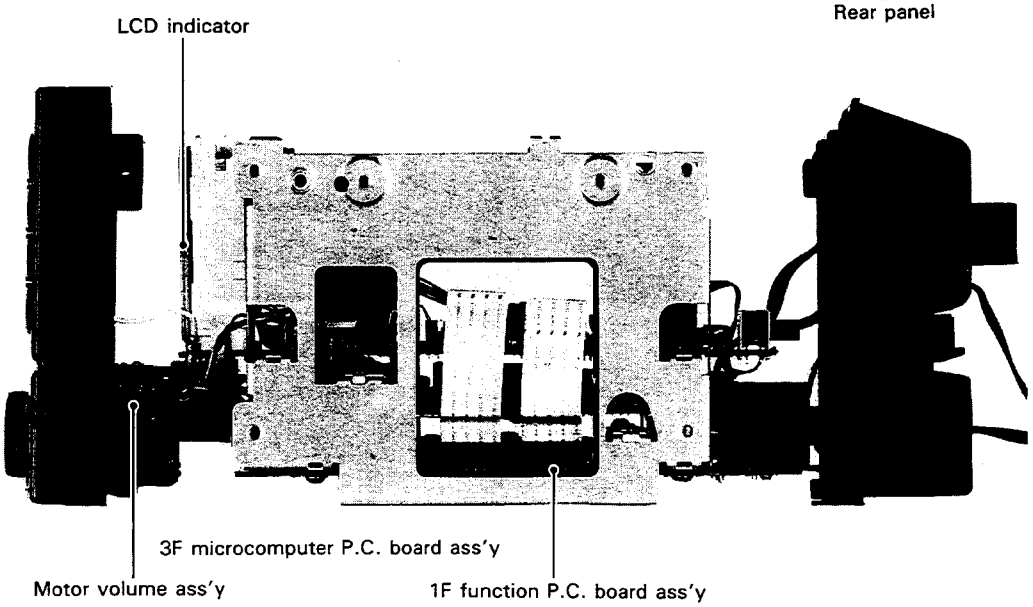


Fig. 4-8

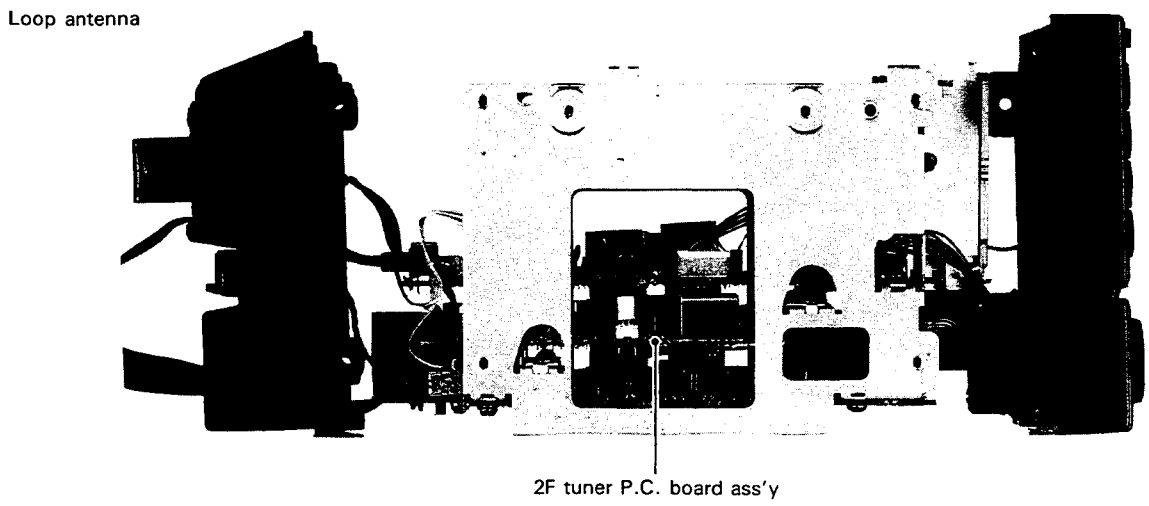


Fig. 4-9

5 Main Parts Dismounting Method

<Procedures for Disassembly of CD/Tuner Section>

■ Method of easily dismounting the parts together with the unit

1. Remove the bottom cover.
2. Dismount (Take out) the front panel ass'y togehter with the wire from the chassis.
3. Also, dismount (take out) the rear panel ass'y together with the wire from the chassis.
4. Dismount the CD unit.
5. Dismount the respective assemblies (front panel rear panbel and other respective assemblies).

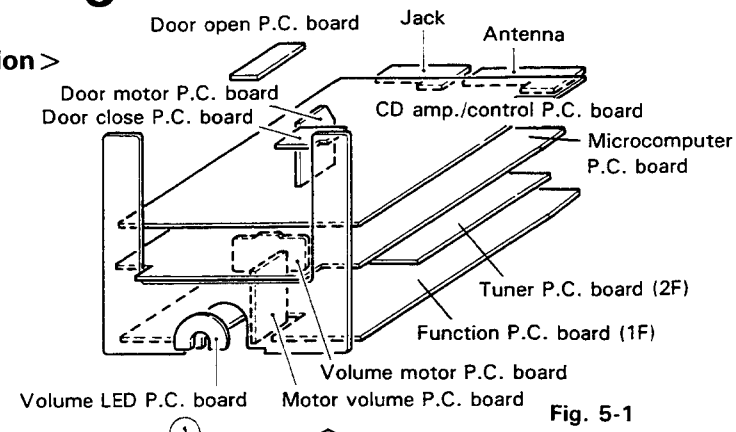


Fig. 5-1

■ Front/Rear/Bottom/Cover Dismounting Method

1. Remove the five screws (1) and (2) retaining the bottom cover.
2. Dismount the covers initially from the rear cover while opening both sides.
3. Remove the four screws (3) retaining the front cover.
4. Remove the connectors CN701 and CN702 from the both side of 3F P.C. board.
   CN702: From the key switch P.C. board
   CN703: From the volume motor P.C. board
5. Remove the volume P.C. board connector CN314 from the 1F P.C. board.
6. Remove the earth wire receptacle provided from the switch P.C. board to the 3F P.C. board (See Fig. 5-4).
7. Remove the four screws (4) retaining the rear panel.
8. Remove the AM antenna wire CN2 to the 2F P.C. board
9. From the terminal P.C. board CN1, remove the FM antenna parallel wire provided from the 2F P.C. board.
10. Remove the connector CN306 from the AUX IN terminal P.C. board.

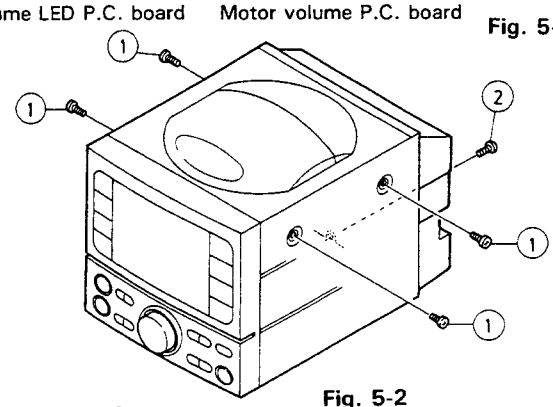


Fig. 5-2

■ Method of Dismounting the Front Panal Ass'y parts

1. Pull out the sound volume knob.(When the one screw retaining the LED P.C. board is removed, the knob can be replaced. The LED wire should be passed through a hole on the front panel bottom side).
2. After removing the nut (5) retaining the sound volume ass'y from the front panel, take out the motor volume ass'y.
3. Remove the nine screws (6) retaining the control switch P.C. board ass'y.

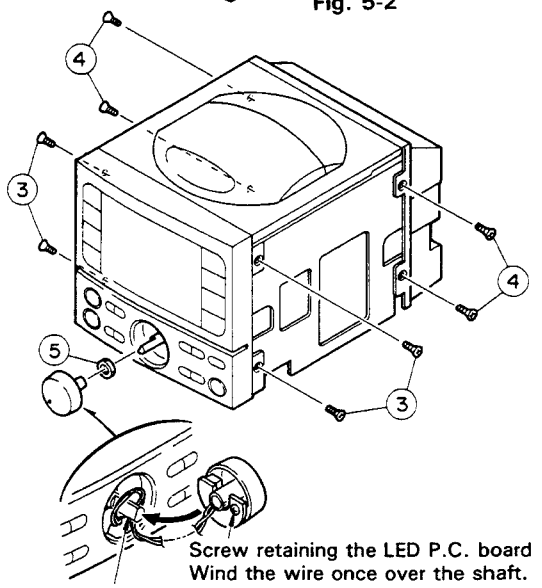


Fig. 5-3

■ Method of Dismounting the Ranel Assembly Parts

1. When the one screw retaining the AM antenna holder is removed, the antenna wire can be dismounted.
2. Remove the three screws retaining the AUX IN/FM antenna terminal ass'y. Then, the terminal ass'y can be dismounted.

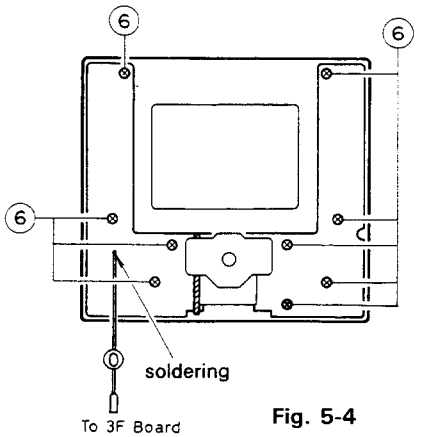


Fig. 5-4

■ Method of Dismounting CD Player Unit Assembly Section

1. Remove the two screws (7) and the two rear side bosses retaining the CD player ass'y.
2. Dismount the wires provided from the CD P.C. board ass'y to the 3F P.C. board ass'y according to the following procedures:
   3F P.C. board CN707: From CD board CN504
   3F P.C. board CN706: From CD door sensor and motor P.C. board
   3F P.C. board CN705: From CD P.C. board FW501
   Then, the CD player ass'y can be dismounted.

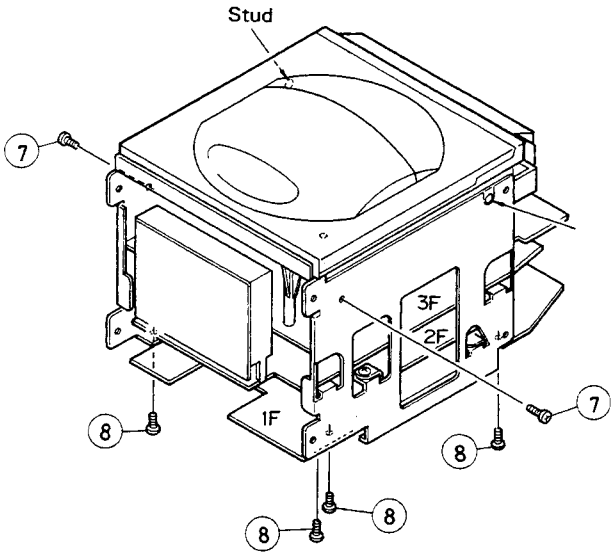


Fig. 5-5

■ Method of Dismounting 3F P.C. Board (Microcomputer P.C. Board)

1. From both side chassis, remove the three screws (9) retaining the 3F P.C. board (microcomputer P.C. board).
2. From the 3F P.C. boards CN703 and CN704, remove the wire connecting between the 2F P.C. board(microcomputer P.C. board) and 1F P.C. board.
3. Dimount the channel space switch ass'y from the rear left side.

■ Method of Dismounting 2F P.C. Board (Tuner P.C. Board)

1. From both side chassis, remove the two screws (10) retaining the 2F P.C. board (tuner P.C. board).
2. From the 2F P.C. board (tuner P.C. board), dismount the 10 pin connector CN301 through to the 1F P.C. board (function P.C. board).
3. Remove the four screws (8) retaining the 1F P.C. board (function P.C. board).

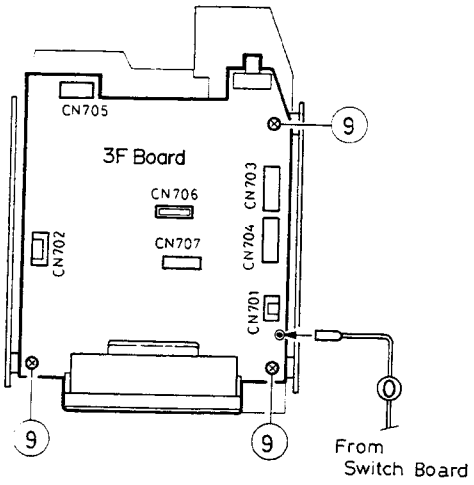


Fig. 5-6

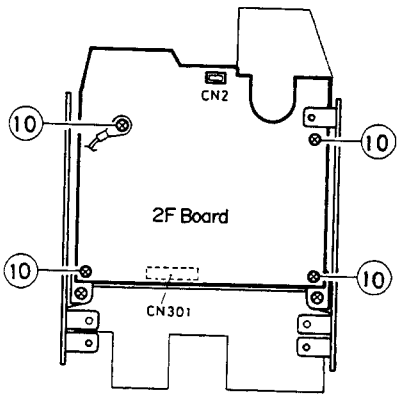


Fig. 5-7

<CD Unit Section>

1. Remove the three screws (11) retaining the CD P.C. board ass'y.
2. From the CD motor ass'y, dismount the connector provided from the CD P.C. board to the motor P.C. board (In this case, the pickup P.C. board connector should also be dismounted as necessary).
3. Remove the two screws (12) retaining the CD mechanism ass'y.
4. Raise the CD mechanism from the motor side and dismount the mechanism while pushing the rubber cushion E section downward.

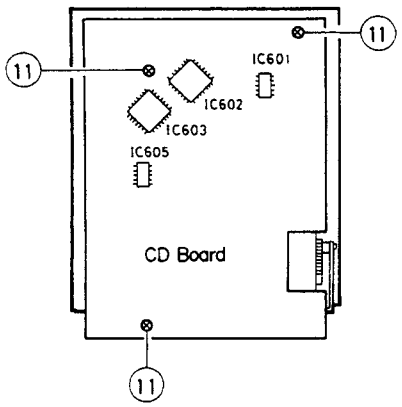


Fig. 5-8

■ Pickup Changing Method

1. Place the turntable of the mechanism ass'y while keeping the table upside, and remove the two screws (13) retaining the pickup cover (black).
2. Remove the two screws (14) retaining the plastic controller, and unlock the section F.
3. Now, it is possible to dismount the pickup shaft and change the pickup.

■ CD Door Dismounting Method

1. Dismount the CD door open sensor P.C. board.
2. Dismount and pull out the CD door shaft.

■ CD Clamper Dismounting Method

1. Under the conditions wherein the CD door is opened and the clamper is drawn to the front side of the door, pull the back side of the door. Next, slide the clamper to the back side of the door where the click has been disengaged. then, the clamper can be dismounted.

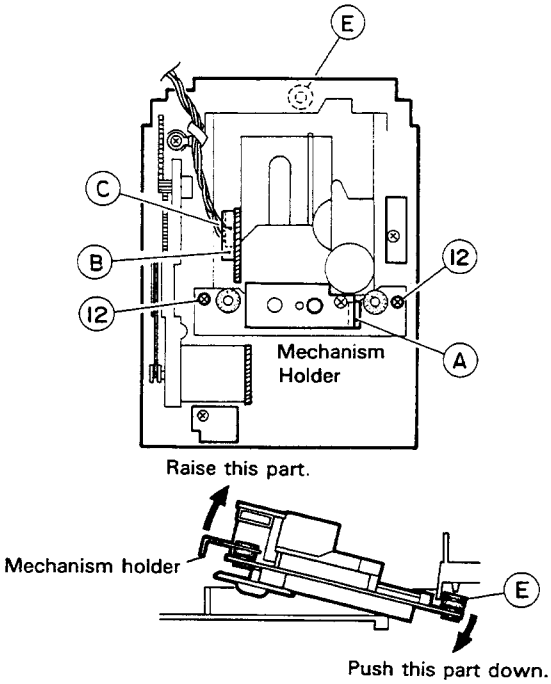


Fig. 5-9

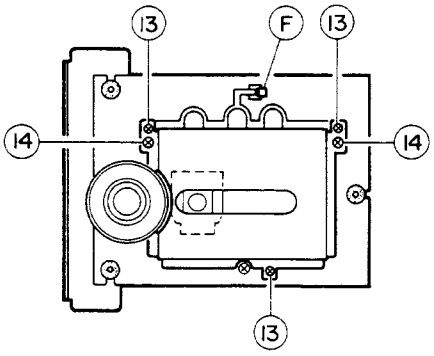


Fig. 5-10

<Procedures for Disassembly of the Tape Deck and Amp. Section>

Remove the six screws (1) retaining the upper cover.

■ Separation of Power Supply Section and Amp. Section

1. Dismount the P.C. board holder.
2. Remove the pin 9 of the power supply wire from the preamp. P.C. board CN609.
3. Remove the head phone wire from the relay P.C. board CN355 (See Fig. 5-13).
4. Remove the pin 5 of power supply wire from the preamp. P.C. board CN302.
5. Remove the two screws (2) clamping the bottom cover and front panel.
6. Then, the power supply section and amp. section can be separated.

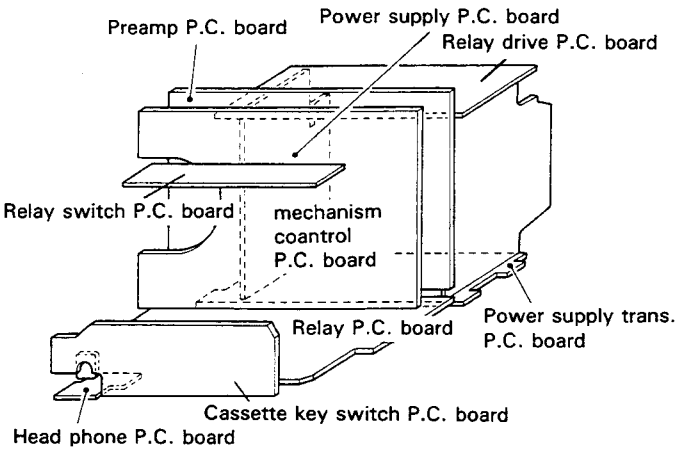


Fig. 5-11

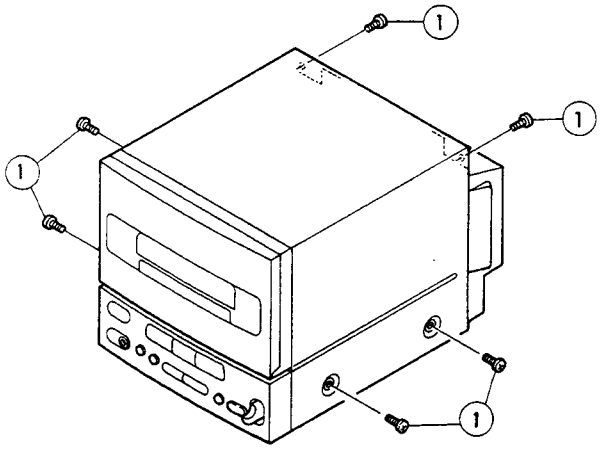


Fig. 5-12

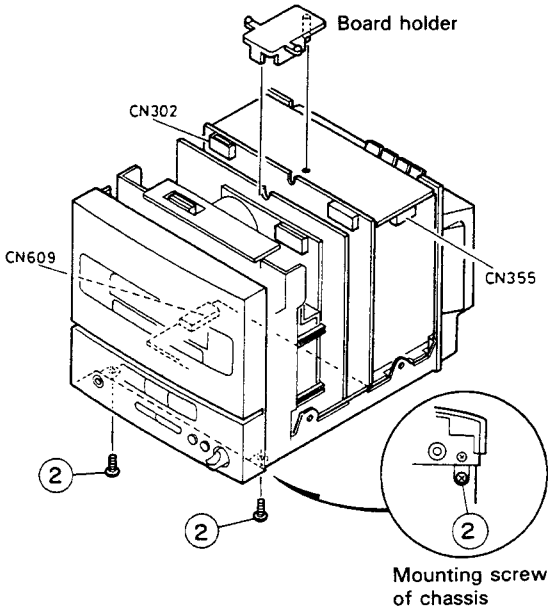


Fig. 5-13

■ Procedures for Disassembly of Deck Section

1. Remove the pin 8 wire from the connector (A) of the mechanism reel motor P.C. board.
2. Remove the pin 7 wire from the mechanism cam switch P.C. board (B).
3. Dismount the preamp. P.C. board (CN601 and CN602) from the relay P.C. board.
4. Dismount the mechanism control P.C. board (CN603 and CN604) from the relay P.C. board.
5. Remove the pin 6 wire of the leaf switch from the mechanism control P.C. board CN501.
6. Dismount the head wire connector (CN301) from the preamp. P.C. board, and dismount the wire holder from the relay P.C. board.
7. Remove the one screw (3) clamping the front panel and mechanism bracket.
8. Dismount the front panel from the mechanism holder clicks on both sides of the cassette mechanism, and after removing tha eraser head wire CN607 from the lower side of the cassette mechanism ass'y, take out the mechanism ass'y.
9. The relay P.C. board can be diamounted from the mechanism control P.C. board are pulled while turning the board aside upward.
10 Remove the one screw (15) retaining the head phone jack ass'y.

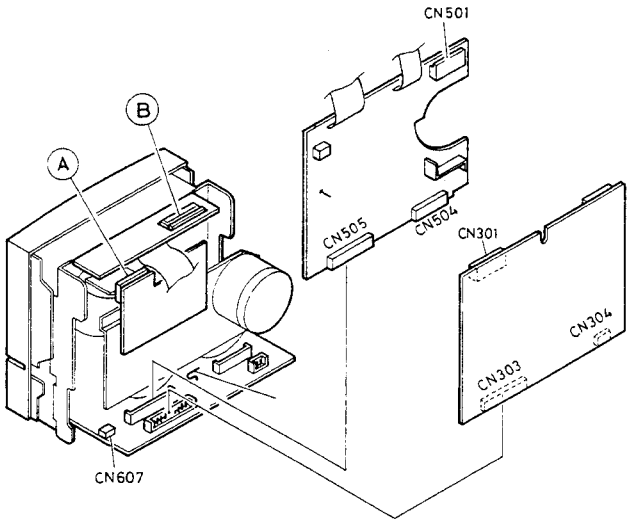


Fig. 5-14

■ Casstte Door Ass'y

1. Dismount the mechanism ass'y
2. Remove the door spring.
3. Dismount the door arms from the mechanism bracket. (Dismount the arms from the bracket while pushing the arms on both sides inward).

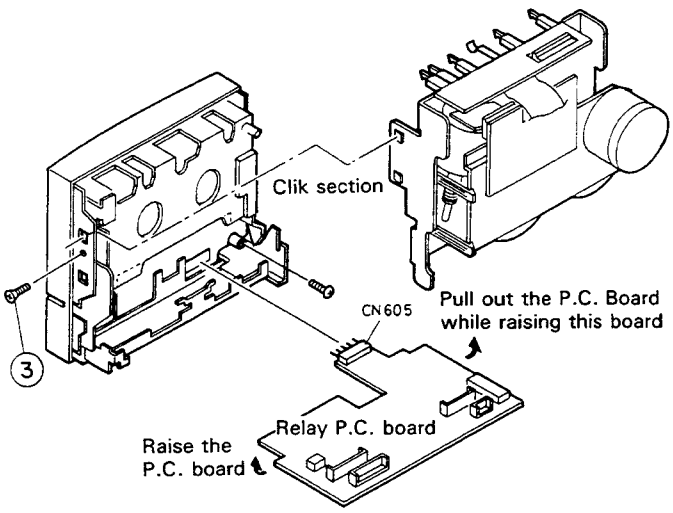


Fig. 5-15

■ Cassette Control switch P.C. Board Ass'y.

1. Dismount the mechanism and cassette door ass'y.
2. Remove the three screws (16) and (17) retaining the mechanism bracket from the bottm side.
3. Remove the five screws (18) retaining the P.C. board ass'y.

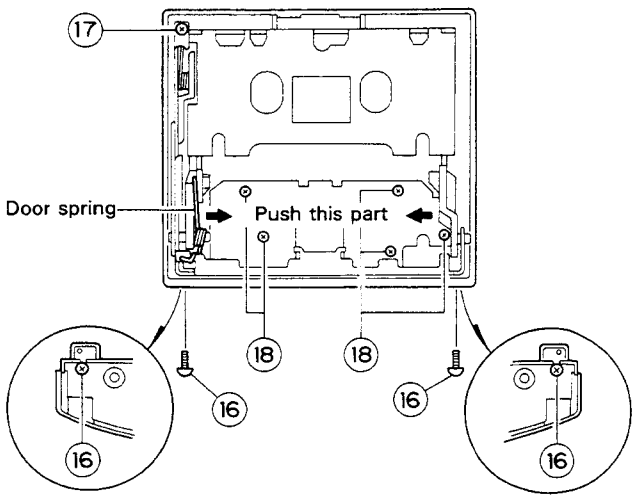


Fig. 5-16

■ Procedures for Disassembly of Power Supply Section

1. Remove the two screws (4) retaining the rear panel.
2. Remove the power sopply cord from the rear panel.
3. Remove the one screw (5) retaining the amp. input (CD/tuner output) connector jack.
4. Dismount the upper power supply P.C. board while pulling it upward.
5. Remove the four screws (6) retaining the head sinks A and B.
6. Remove the two screws (7) retaining the trans. bracket from the bottom side.
7. slide the power supply ass'y to the front side, and dismount it from the bottom cover.
8. Remove the one screw (8) retaining the power amp. P.C. board.
9. Remove the one screw (9) retaining the power supply relay P.C. board, and dismount this P.C. board from the power supply trans. P.C. board.

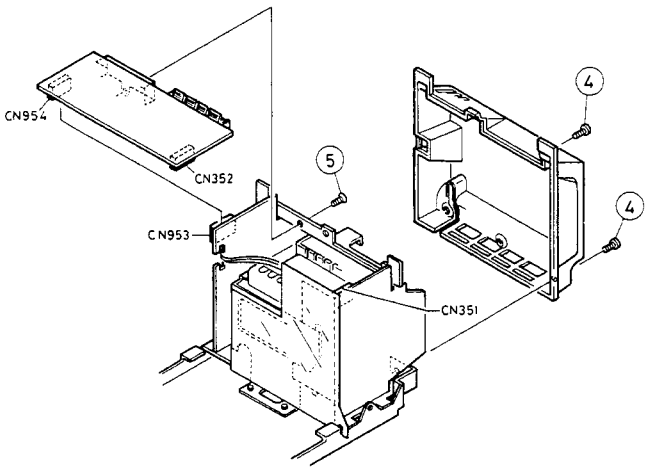


Fig. 5-17

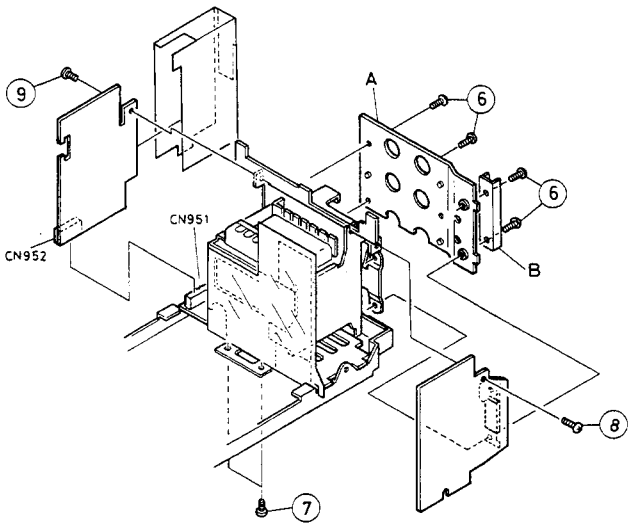


Fig. 5-18

■ Speaker Disassembly Method

This speaker is attached to the speaker panel and speaker box by pressure bonding.
Since the panel, etc. may sometimes be damaged when excessive force is applied rapidly to the panel, be sure to apply force qradually to the panel, etc. to dismount the speakey.

■ Speaker Box disassembly Procedures

1. Manually remove the saran net (See Fig. 5-19).
2. Turn the speaker box upside down as indicated in Fig.5-20.
3. Insert a minus screw driver (large) into the right groove indicated in Figs. 5-20 and 5-21 (A), and push up just the bottom of the insertnut.

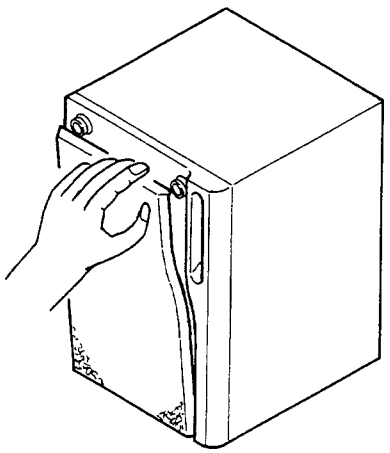


Fig. 5-19

4. Insert the minus screw driver (large) into the groove on the left side as indicated in Fig. 5-21 (B), and after moving it into just below the "gate boss" of the front panel and turning the tip of the screw driver at this Position, slowly push up the front panel according to the precautions in the step 3.
5. Insert a size AA battery, etc. between the raised front panel and speaker box as shown in Fig. 5-22
6. Next, insert an acryl plate with a thickness of about I mm toward the boss of the front panel provided at the center of the surface on the left side.
7. Insert another minus screw between the minus screw driver and front penal as shown by the expanded part in Fig. 5-22 in order to avoid damage to the front panel, and push up the front panel to the front buffle/buckle plate as a supporting point.
8. Then, remove all of the bosses according to the procedures in the Steps 4 - 7.
9. For dismounting the speaker unit, remove the four screws (4) to dismount the low and medium sound zone speakers and the two screws (1) to dismount the tweeter.

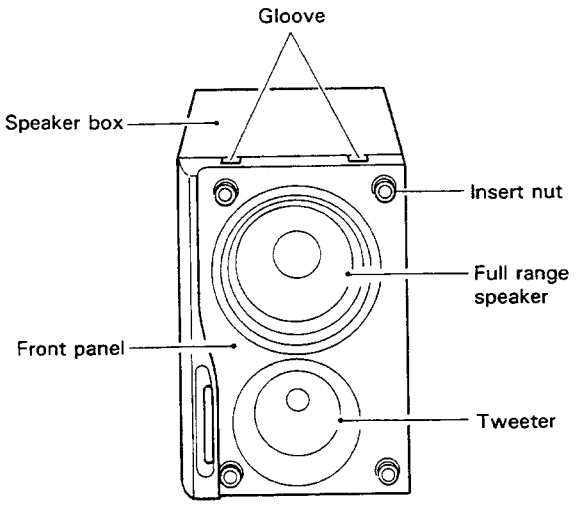


Fig. 5-20

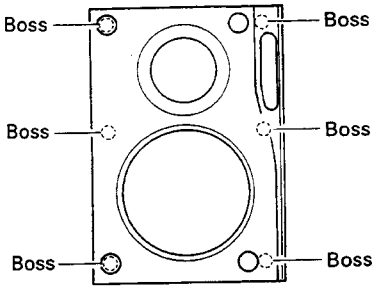


Fig. 5-23

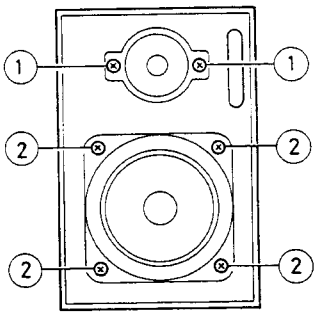


Fig. 5-24

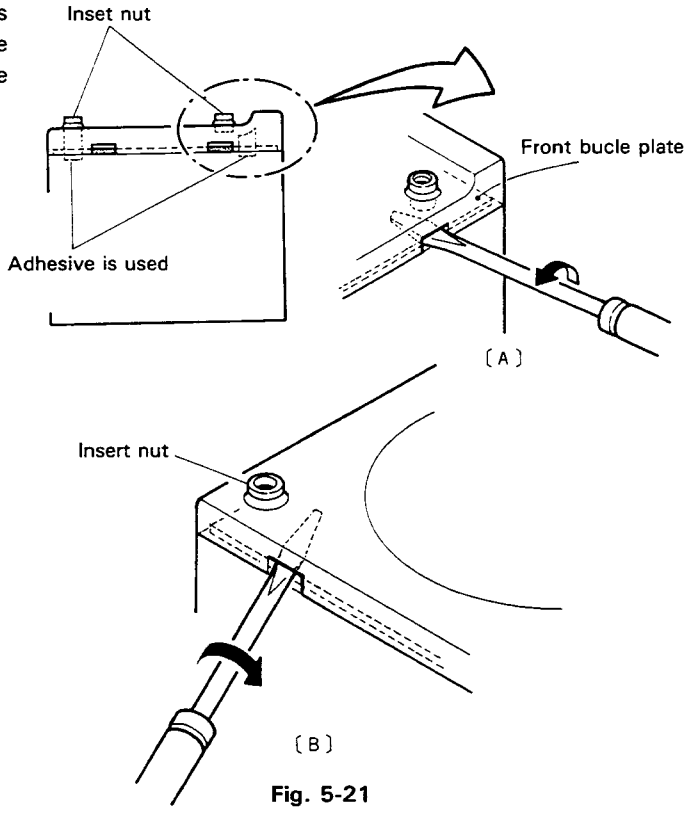


Fig. 5-21

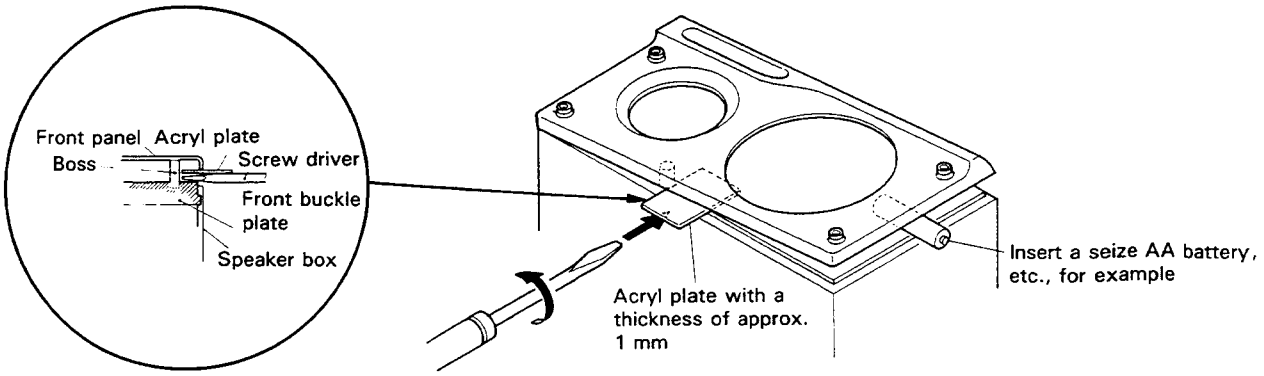


Fig. 5-22

<Cassette Mechanism Section>

■ Head Mount Assembly (Fig.5-25, Fig.5-26)

1. Disengage two pawls securing the head wire relay board.
2. Remove two screws (1) retaining the head mount assembly from the head base.
3. Remove the head gear (1) and the head spring.

■ Pinch Roller Assembly (Fig.5-25, Fig.5-27)

1. Release the return spring from the pawl and the return spring can be removed.
2. Remove the pinch roller spring.
3. For re-engaging the springs, see the figures of (A) and (B).

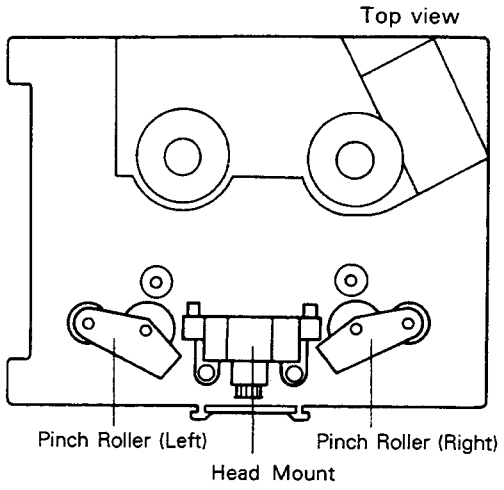


Fig. 5-25

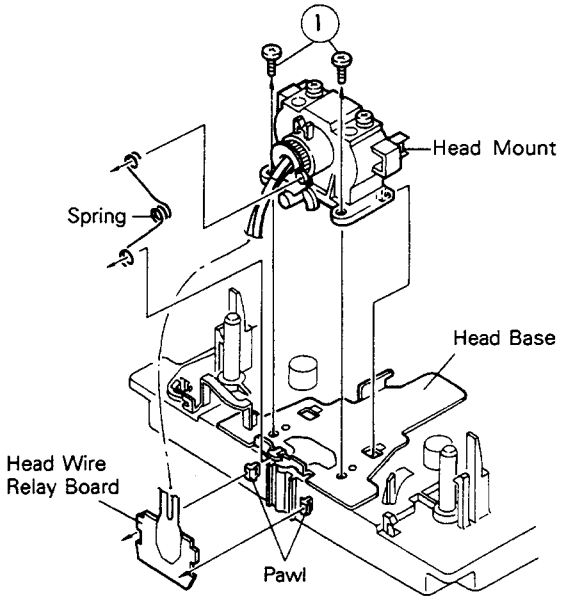


Fig. 5-26

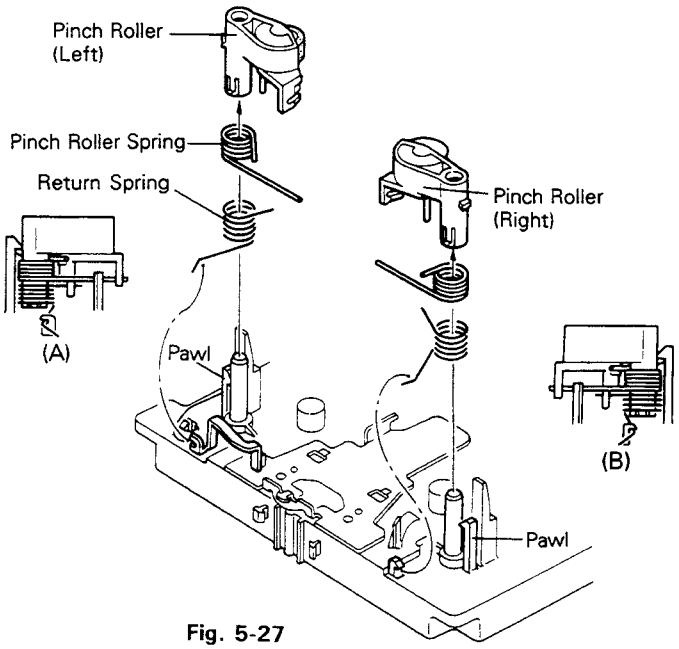


Fig. 5-27

■ FM Bracket/Capstan Motor Assembly

(Fig.5-18, Fig.5-19)

1. Unsolder at the two points connecting the drive motor and the motor board.
2. Remove two screws (2) retaining the FM bracket and capstan motor assembly together with.
3. Remove two fixing screws (3) and disengage three pawls, and the FM bracket and capstan belt can be removed.
4. Remove two screws (4) retaining the capstan motor to the FM bracket.
5. For re-engaging the capstan belt, refer to Fig 5-20.

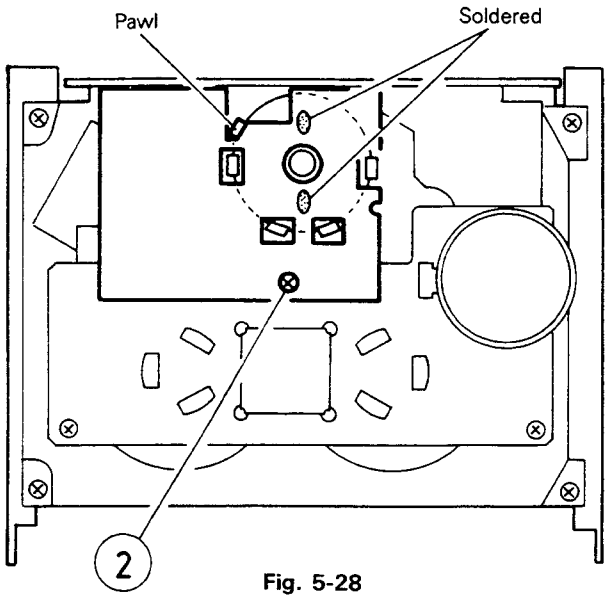


Fig. 5-28

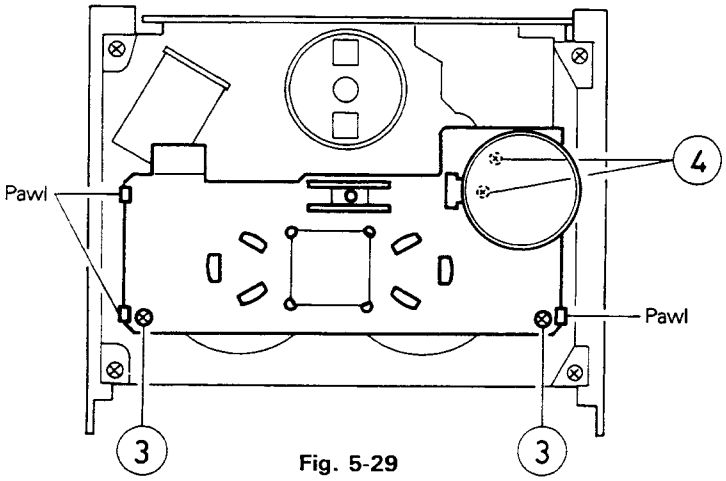
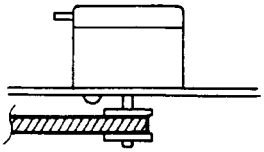


Fig. 5-29



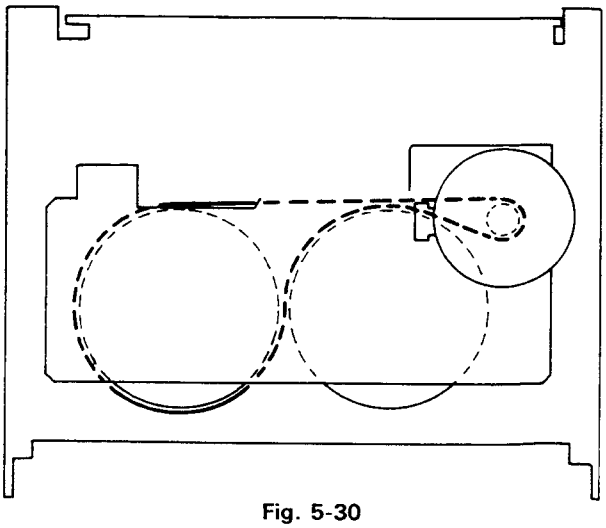


Fig. 5-30

■ Actuator Motor Assembly (Fig.5-30, Fig.5-31)

Disengage three pawls securing the actuator motor assembly.

■ Flywheel Assembly (Fig.5-31, Fig.5-33)

Remove the washer engaged on the capstan shaft and pull out the flywheel.

■ Drive Motor (Fig.5-31, Fig.5-34)

1. Pull the gear and the FR arm assembly out of the drive motor shaft.
2. Remove a screw 5 retaining the drive motor.
3. Disengage four pawls securing the drive motor.

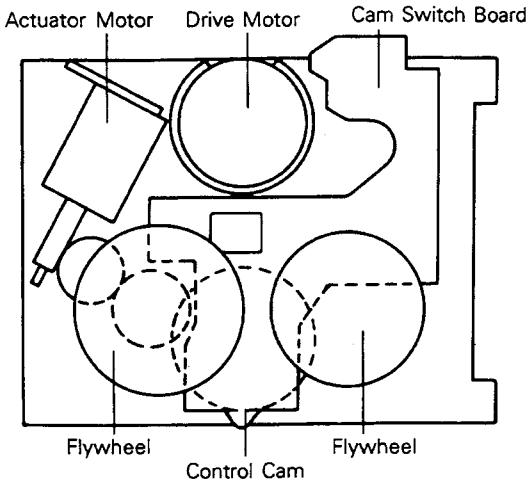


Fig. 5-31

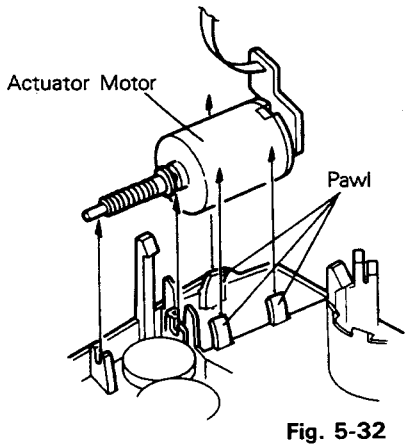


Fig. 5-32

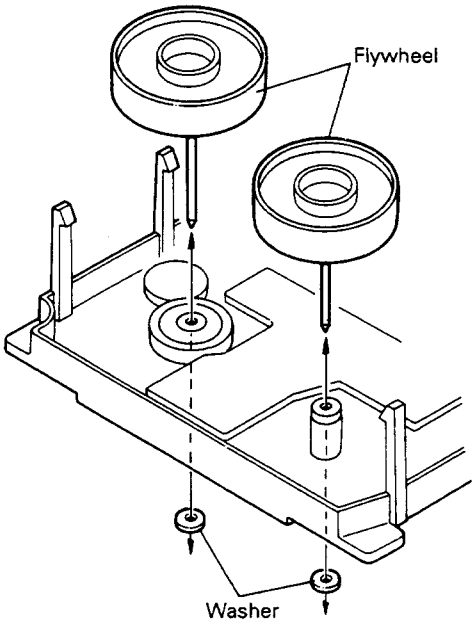


Fig. 7-33

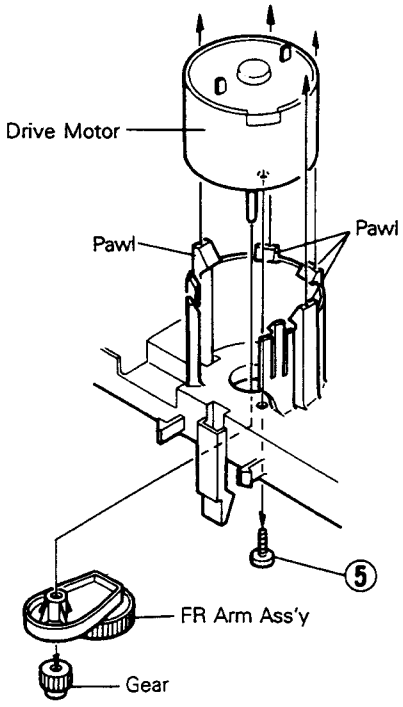


Fig. 5-34

■ Cam Switch Board (Fig.5-31, Fig.5-35)

1. Disengage six pawls retaining the cam switch board.
2. Engagement of the cam switch board with the control cam is shown in the magnified illustration in the circle.

■ Actuator Gear (big) (Fig. 5-31, Fig.5-36)

Disengage three pawls retaining the actuator gear (big).

■ Control Cam (Fig.5-31, Fig.5-36)

1. Disengage two pawls retaining the control cam.
2. Assembled condition of the control cam is illustrated in the circle.

■ Actuator Gear (small) (Fig. 5-31, 5-36)

Disengage two pawls retaining the actuator gear (small).

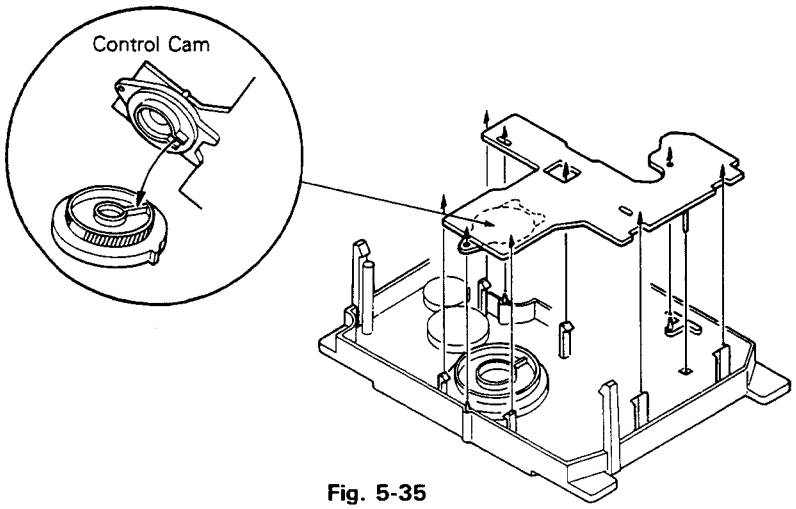


Fig. 5-35

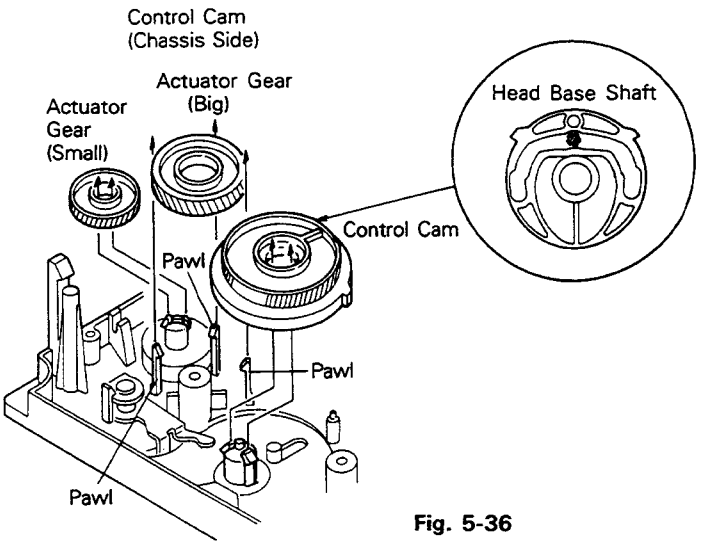


Fig. 5-36

6 Main Adjustment

■ Deck Section (Ass'y): Measurement conditions

Power supply voltage:
AC 240 V 50/60 Hz: A/B version
AC 230 V 50/60 Hz: E/G/GI/EN version

Reference output:
Speaker .....0.dBs (0.45 V)/4 ohm
Headphone....0.dBs (0.14 V)/32 ohm

Reference input level:
AUX IN .....-8 dBs

Volume switch setting positions
: Function....Tape
: Main volume ... Adjustment to 0 dBs output
: Timer ... OFF
: Electronic treble ... Flat
: Beat cut/cutting swtich ... Standard

Measurement Tape
: Normal TS-8
: Chromium TS10
: Metal TS11

Adjusted Output
: DOLBY test points (CN and TP)

Measurement method
: For measurement, connect the filter to the electronic voltmeter.

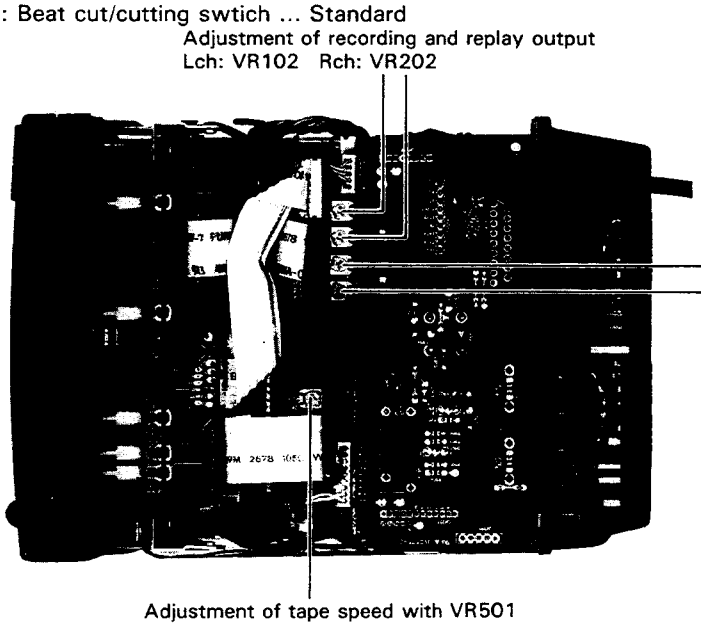

Adjustment of recording and replay output
Lch: VR102 Rch: VR202
Adjustment of replay output level
VR101 : Lch
VR201 : Rch
Adjustment of tape speed with VR501

Fig. 6-1

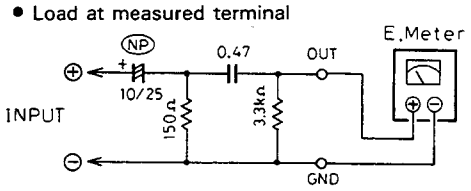


Fig. 6-2

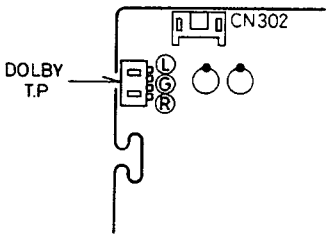


Fig. 6-3

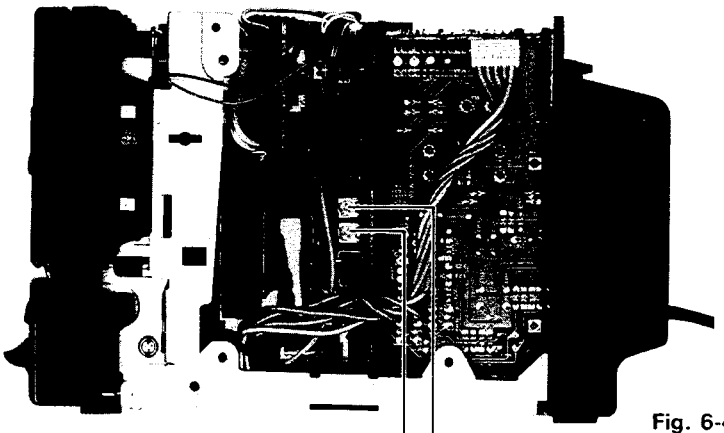
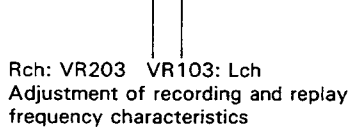
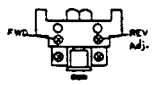


Fig. 6-4



■ Adjustment and Confirmation Items

Item	Mesurement Tape	Adjustment and Confirmation Methods	Select Switch	Adjustment positions
Confirmation of L and R channels	VTT752	Confirm the Lch output by replaying the side A of the test tape VTT752. Next, confirm the Rch output by replaying the side B.	TAPE	———
Confirmation of head angle 	VTT704 (12.5 kHz) Adjustment of output: DOLBY test point	(1) Replay the test tape VTT704 (12.5 kHz). (2) Adjust the head angle so that the phase difference becomes miminum at maximum output in both the forward and reverse directions.	TAPE	Whenever the head is changed, the azimuth should be readjusted.
Adjustment and confirmation of tape speed, wow and flutter	VTT712 (3 kHz) Adjustment of output: DOLBY test point	• Replay the test tape VTT712 (3 kHz) in forward direction. With VR501, adjust the output so that the reading of frequency counter becomes 3,000±10 Hz. • Next, replay the test tape VTT712 (3 kHz) in reverse direction. With VR501, adjust the output so that the reading of frequency counter becomes 3,000±60 Hz. • Wow and flutter: 0.2% (JIS WRMS) or less	TAPE	VR501
Confirmation of AUTO. tape select	VTT739 Adjustment of output: DOLBY test point	Replay the test tape VTT739 with its chromium detector click being cut out, and confirm that the deveiation is (within) 12.5 kHz with reference to 1 kHz.	TAPE	———
Adjustment of replay output level	VTT724 (1 kHz) Adjustment of output: DOLBY test point	Replay the test tape VTT724. Measurement of output: With the following volumes, adjust the output level so that it becomes −11 Bs at the DOLBY test point: Lch: VR101, Rch: VR201	TAPE	Lch: VR101 Rch: VR201
Confirmation of replay frequency characteristics	TMT735 and VTT739 Adjustment of output: DOLBY test point	Replay the test tapes TMT735 and VTT739, and conform that the output at the DOLBY test point becomes as follows with reference to 1 kHz: 63 Hz : −2 dB±4 dB 12.5 kHz: 0 dB±3 dB After selecting to the metal tape mode, confirm that the output in the case of 12.5 kHz is within −4± dB with reference to that in the case of the normal tape mode.	TAPE	———
Adjustment and confirmation of replay frequency	TS8 and TS10 Adjustment of output: DOLBY test point	(1) While inputting Ref. −20 dB from AUX IN, perform recording and replay with the normal tape TS8. At this time, confirm the output with VR103 (Lch) and VR203 (Rch) so that the deviation between 1.25 kHz and 12.5 kHz at the DOLBY test point becomes 0±1 dB.	TAPE/Normal	Lch : VR103 Rch: VR203
Adjustment of recording and replay output	TS8, TS10 and TS11 Adjustment of output: DOLBY test point	(1) While inputting Ref. 1 kHz to AUX IN perform recording and replay with the normal tape TS8. (2) Adjust Lch and Rch respectively with VR102 and VR202 so that the output at the DOLBY test point at this time becomes 0±1.0 dB. (3) Next, perform recording (and replay) with the chromium tape TS10 and metal tape TS11 according to the same procedures in the Step (1). (4) Confirm that the DOLBY test point output at this time is 0±3 dB.	TAPE/Normal TAPE/ METAL CrO_2	Lch: VR102 Rch: VR202

■ Tuner Adjustment Point

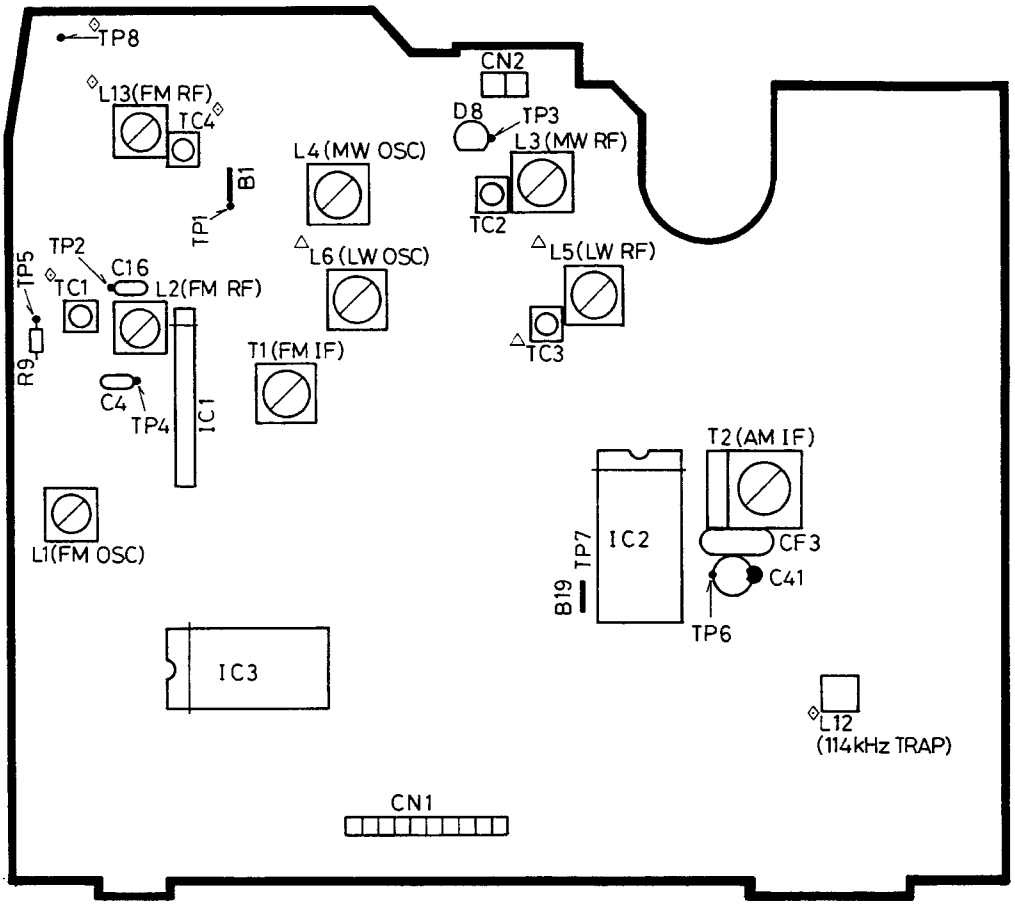


Fig. 6-5

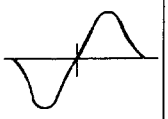
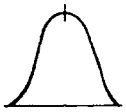
◇ L12, L13, TC1, TC4, TP8 : G version only

△ L5, L6, TC3 : B/E/G/EN/GI only

• **Preset Frequency**

Band	M1	M2	M3	M4	M5	M6	M7	M8	Remarks
FM	87.5	108	88	98	106	87.5	87.5	87.5	
MW	522	1629	603	1404	999	144	288	216	MW/LW

■ Adjustment of Tuner Section

Item	Measuring Condition and Main Adjustment	Standard Value	Adjust
AM IF	The unit should not usually require adjustment. Follow the steps below when adjustment is necessary. [Conditions] • Band select switch position : AM • Reception frequency : Set at the highest frequency where no signal is received. • Volume control : Minimum gain position • Tuner input position : Positive side to TP3 • Tuner output position : Positive side to TP6, Negative side to TP7 [Adjustment] Adjust T2 (above mentioned adjust point) so that maximum and symmetrical waveform Fig. 6-6 can be obtained. In this case, the wave head should appear at the center marker (455 kHz) on the scope of sweeper.	 Fig. 6-6	T2 (AM IF)
FM IF	The unit should not usually require adjustment. Follow the steps below when adjustment is necessary. [Conditions] • Band select switch position : FM • Reception frequency : Set at the highest frequency where no signal is received. • Volume control : Minimum gain position • Tuner input position : Positive side to TP4 • Tuner output position : Positive side to TP6, Nagative side to TP7 [Adjustment] 1. Disconnect CF3 to change waveform from S-curve (Fig. 6-7) to single peak of the waveform (Fig. 6-8). 2. Turn T1 to shape waveform so that it peaks in the center (10.7 MHz) of the waveform and is symmetrical in both sides. 3. Connect CF3 again and confirm that waveform returns to the original (Fig. 6-7).	 Fig. 6-7  Fig. 6-8	T1 (FM IF)
LW Tracking	[Conditions] • Band select switch position : AM • Tuner input : Loop antenna [Adjustment] 1. Adjustment of VT : With preset to M6, receive 144 kHz signal and adjust L6 to obtain 1.1 ± 0.02 V at TP5. 2. Frequency of SSG : 144 kHz Preset position (M6) 3. Adjust L5 to maximize output. 4. Frequency of SSG : 288 kHz Preset position (M7) 5. Adjust TC3 to maximize output. 6. Repeatedly adjust L5 and TC3 to obtain maximum sensitivity.	1.1 ± 0.02 V Maximum Maximum	L5 TC3
MW Tracking	[Conditions] • Band select switch position : AM • Tuner input : Loop antenna [Adjustment] The unit should not usually require adjustment. Follow the steps below when adjustment is necessary. 1. Frequency of SSG : 603 Hz Preset position (M3) 2. Adjust L3 to maximize output. 3. Frequency of SSG : 1404 kHz Preset position (M4) 4. Adjust TC2 to maximize output. 5. Repeatedly adjust L3 and TC2 to obtain maximum sensitivity.	Maximum Maximum	L3 TC2
FM Tracking	[Conditions] • Band select switch position : FM • Tuner input position : Positive side to TP1, Negative side to TP2 (75 Ω unbalanced) [Adjustment - UX-5 B/E] 1. Frequency of SSG : 88 MHz Preset position (M3) 2. Adjust L1 to maximize output. [Adjustment - UX-5G] • Tuner input position : Positive side to TP8, Negative side TP2 (75 Ω unbalanced) 1. Frequency of SSG : 87.5 MHz Preset position (M1) 2. Adjustment of VT : With preset to M1, receive 87.5 MHz signal and adjust L1 to obtain 1.3 ± 0.02 V at TP5. 3. Frequency of SSG : 88 MHz Preset position (M3) 4. Adjust L2 and L13 to maximize output. 5. Frequency of SSG : 106 MHz Preset position (M4) 6. Adjust TC1 and TC4 to maximize output. 7. Repeatedly adjust L2 and TC1 to obtain maximum sensitivity.	Maximum 1.3 ±0.02 V Maximum Maximum	L1 L2, L13 TC1, TC4
FM MPX Confir-mation	[Conditions] • Input position : Positive side to TP1, Negative side to TP2, 75 Ω unbalanced • Input signal : 98 MHz (preset position : M4), 60 dBμV modulation FM stereo modulation frequency: 1 kHz, 75 kHz dev. [Confirmation] Confirm that stereo operation and frequency separation meet specifications.	–	–

■ Adjustment of CD Player Sections

CD unit

The term "in this State" refers to the state in which the CD mechanism (EXL-M5B) and CD Control Board (VMW2307A) are assembled. Accordingly, maintenance and other service operations are performd in a "State of CD Unit".

How to Reset Microcomputer

Adjust level at pin ⑥ of FW2 to +5 V first, and then shortcircuit it to GND.

- **Preparation**

1. When regulated power supply is used, shortcircuit between pin①and pin④of FW501.
   Supply power of 10 V to pin②of FW501.
   Measure audio output at the speaker output terminal.
2. When adjustment or measurement needs to load a disk, remove the magnet clamper from the set.
3. With the OPEN/CLOSE switch (leaf switches S718, S717) set to ON, TOC reading starts.

Adjustment of tracking offset

Oscilloscope, Normal disk are necessary.

- **Adjustment procedure**

1. Connect an oscilloscope between TP502 (VREF) and TP503 (TE).
2. Play a normal disk.
3. Shortcircuit between TP504 and TP502.
4. Adjust VR501 so that DC level of tracking error signal becomes zero (waveform on oscilloscope screen).

Note: Adjust VR501 to shape waveform vertically symmetric based on zero level.
Input to oscillocope is supplied in DC coupling circuit.

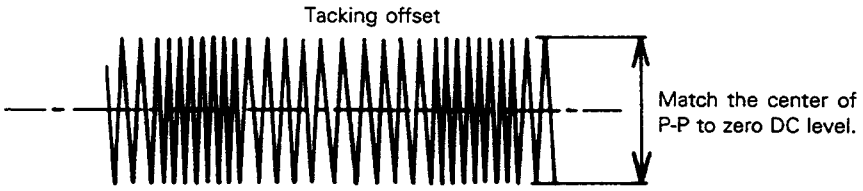


Fig. 6-9

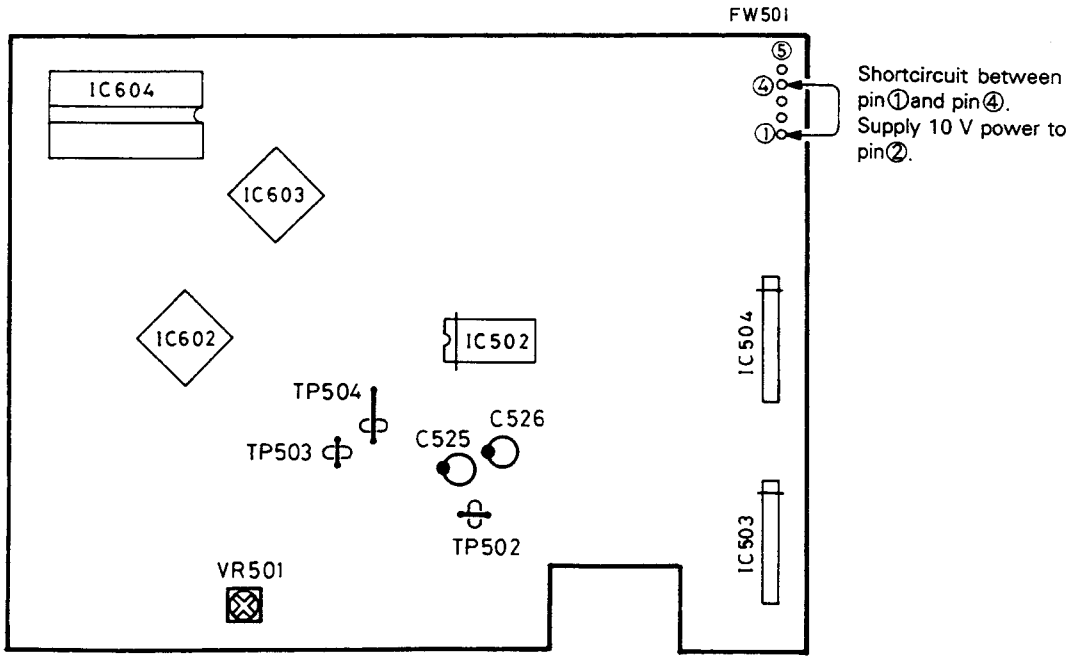


Fig. 6-10

7 Block Diagram

■ CD Unit Diagram

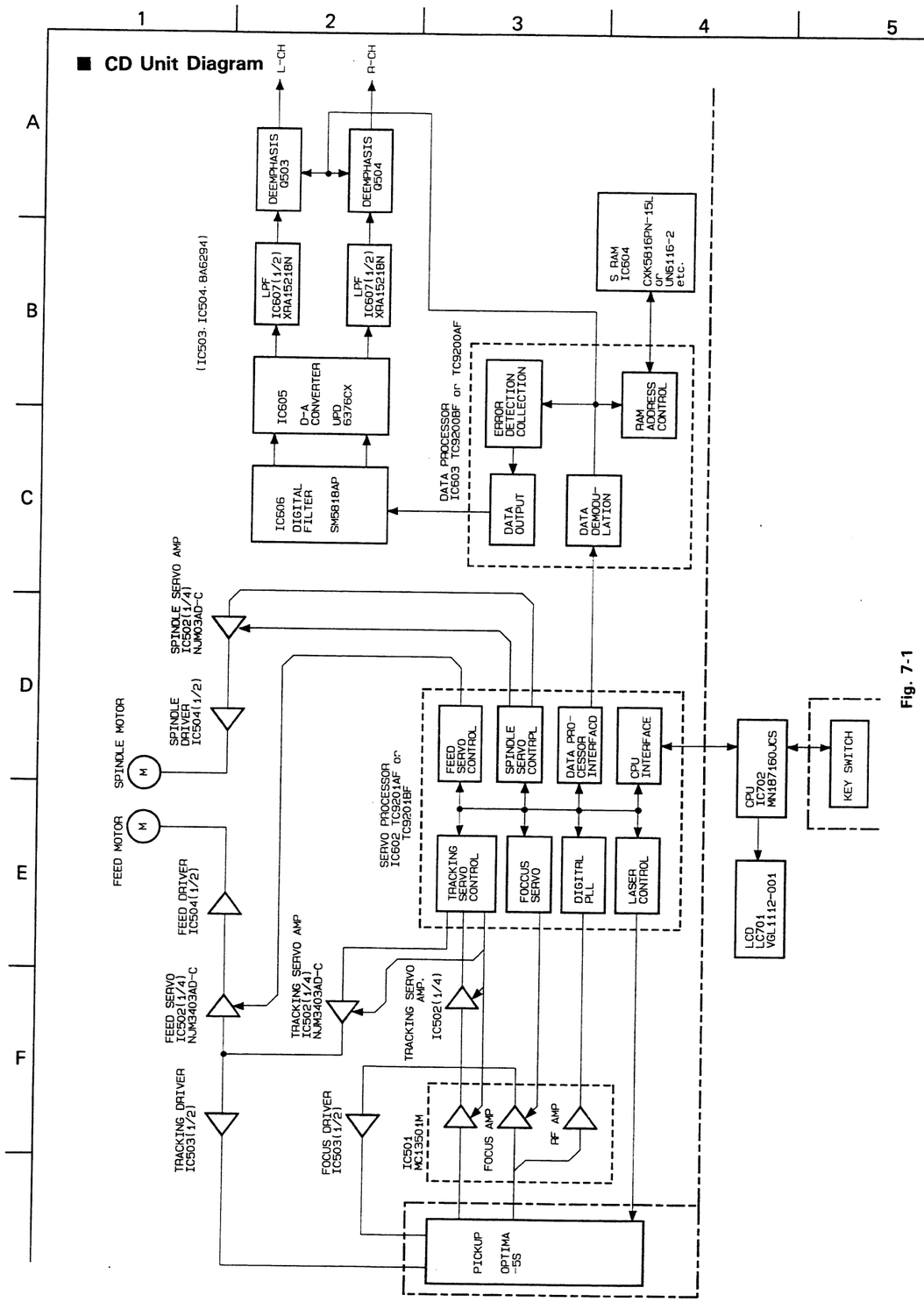


Fig. 7-1

■ Signal Diagram

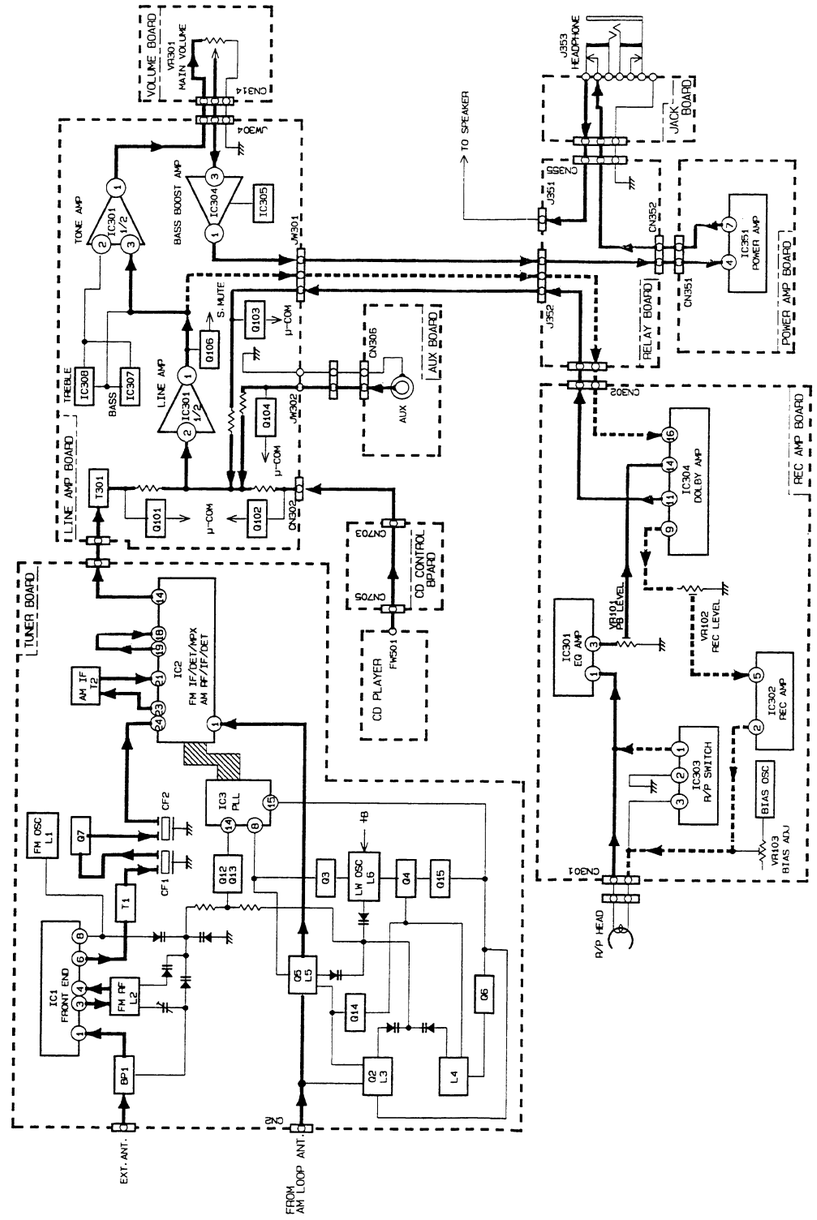


Fig. 7-2

8 Wiring Connections

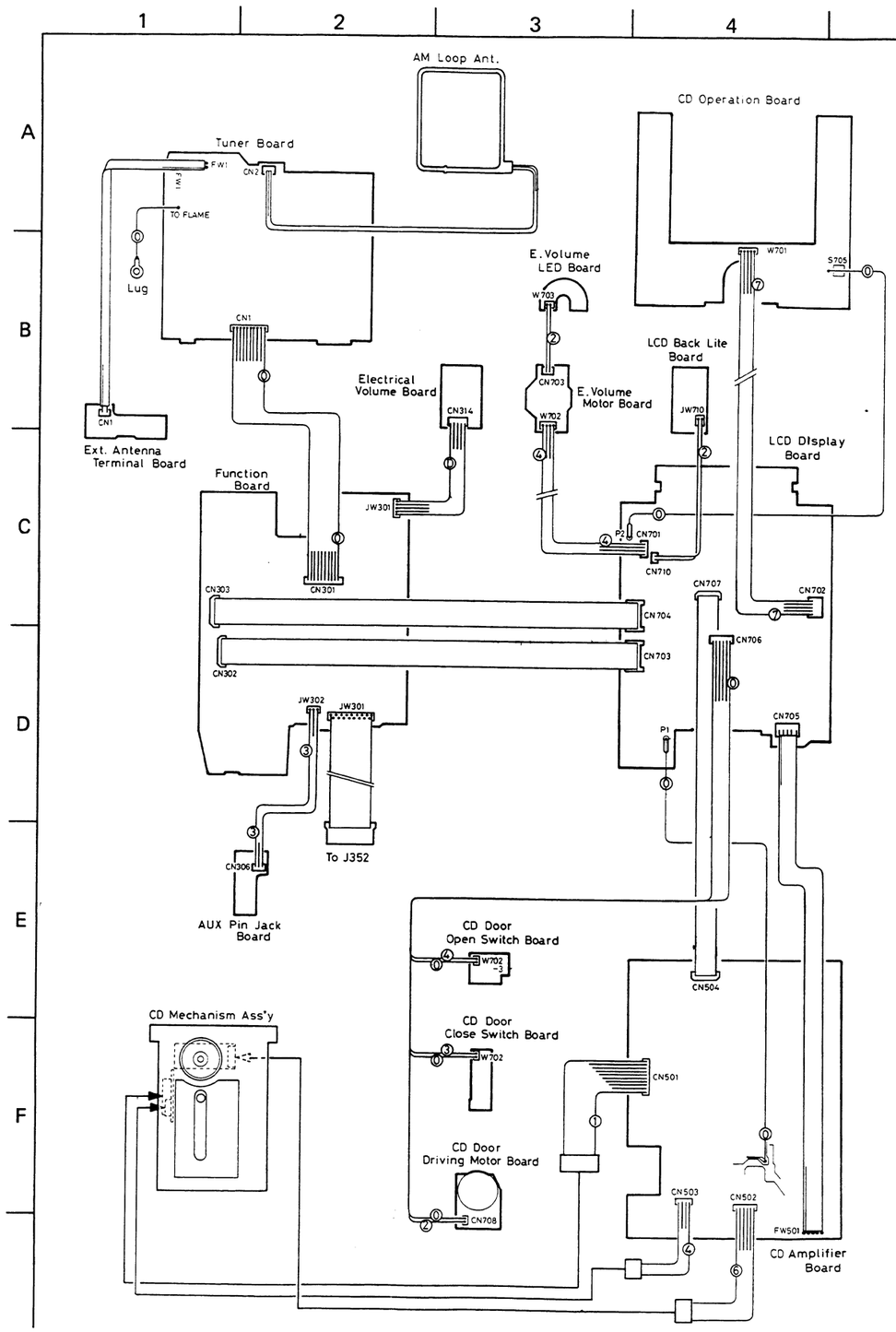


Fig. 8-1

Color codes are shown below.

1 ..... Brown
2 ..... Red
3 ..... Orange
4 ..... Yellow
5 ..... Green
6 ..... Blue
7 ..... Violet
8 ..... Gray
9 ..... White
0 ..... Black
D ..... Pink
C ..... Light Blue

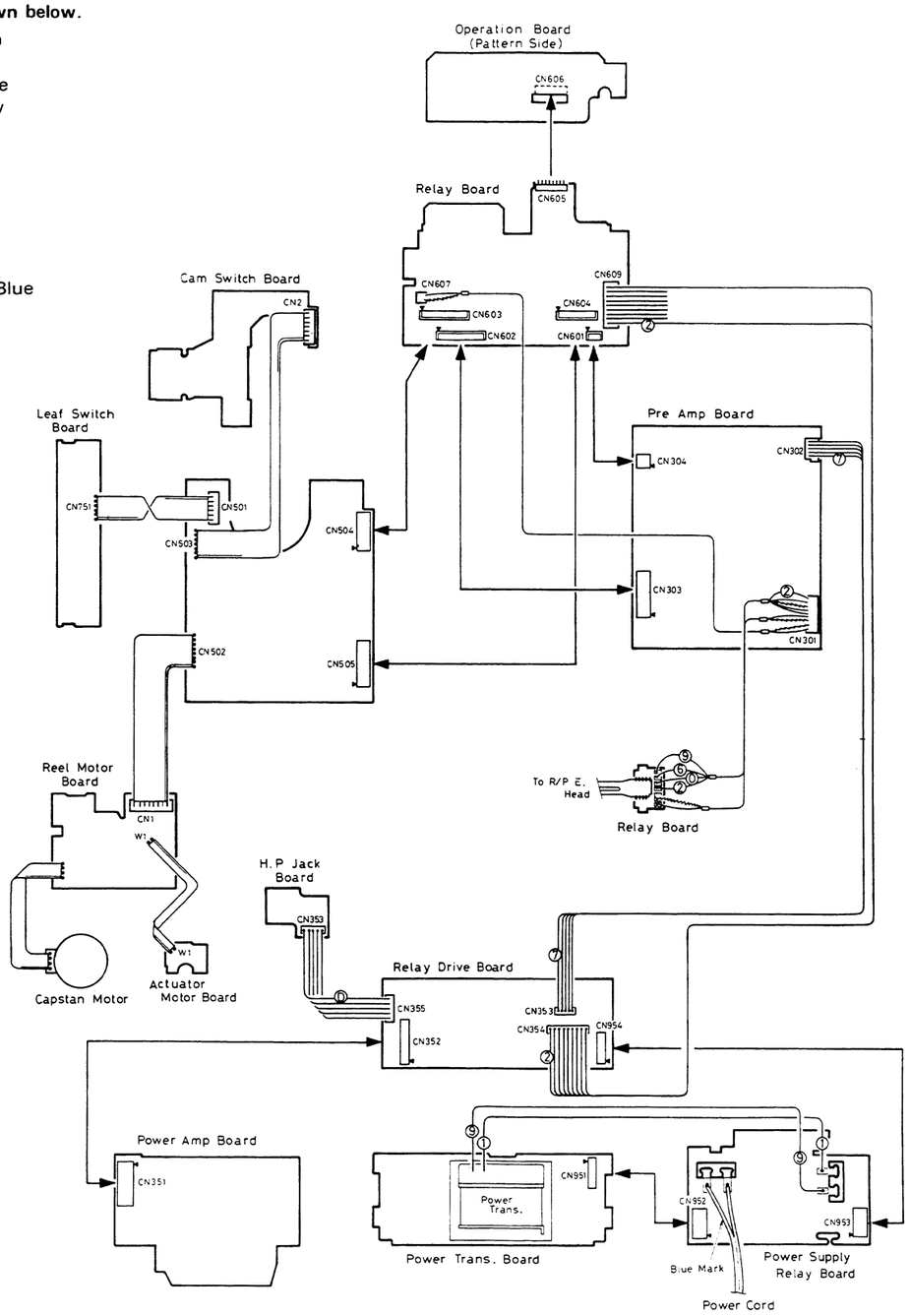


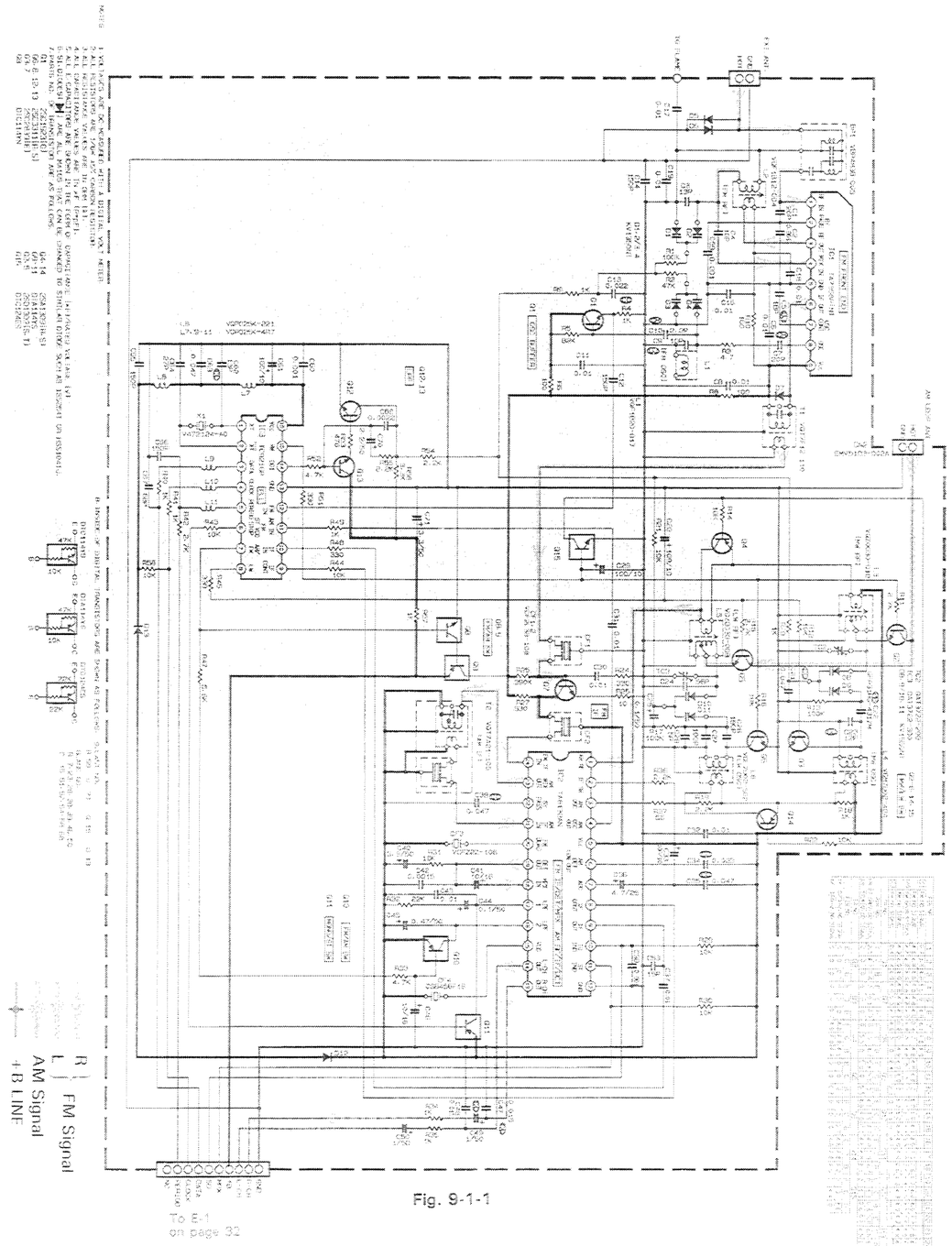
Fig. 8-2

9 Standard Schematic Diagram and P.C. Board Parts

1 2 3 4 5 6 7 8 9 10

A B C D E F

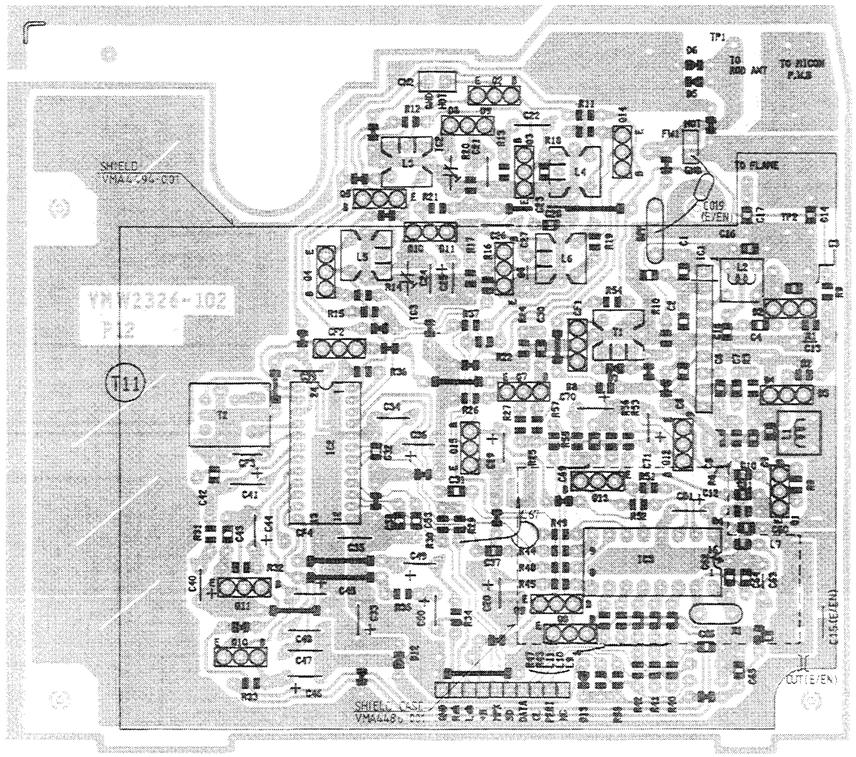
■ Tuner Circuit (B/E/EN Version)



To E-1
on page 32

Fig. 9-1-1

■ Tuner Board



■ Tuner Circuit (A Version)

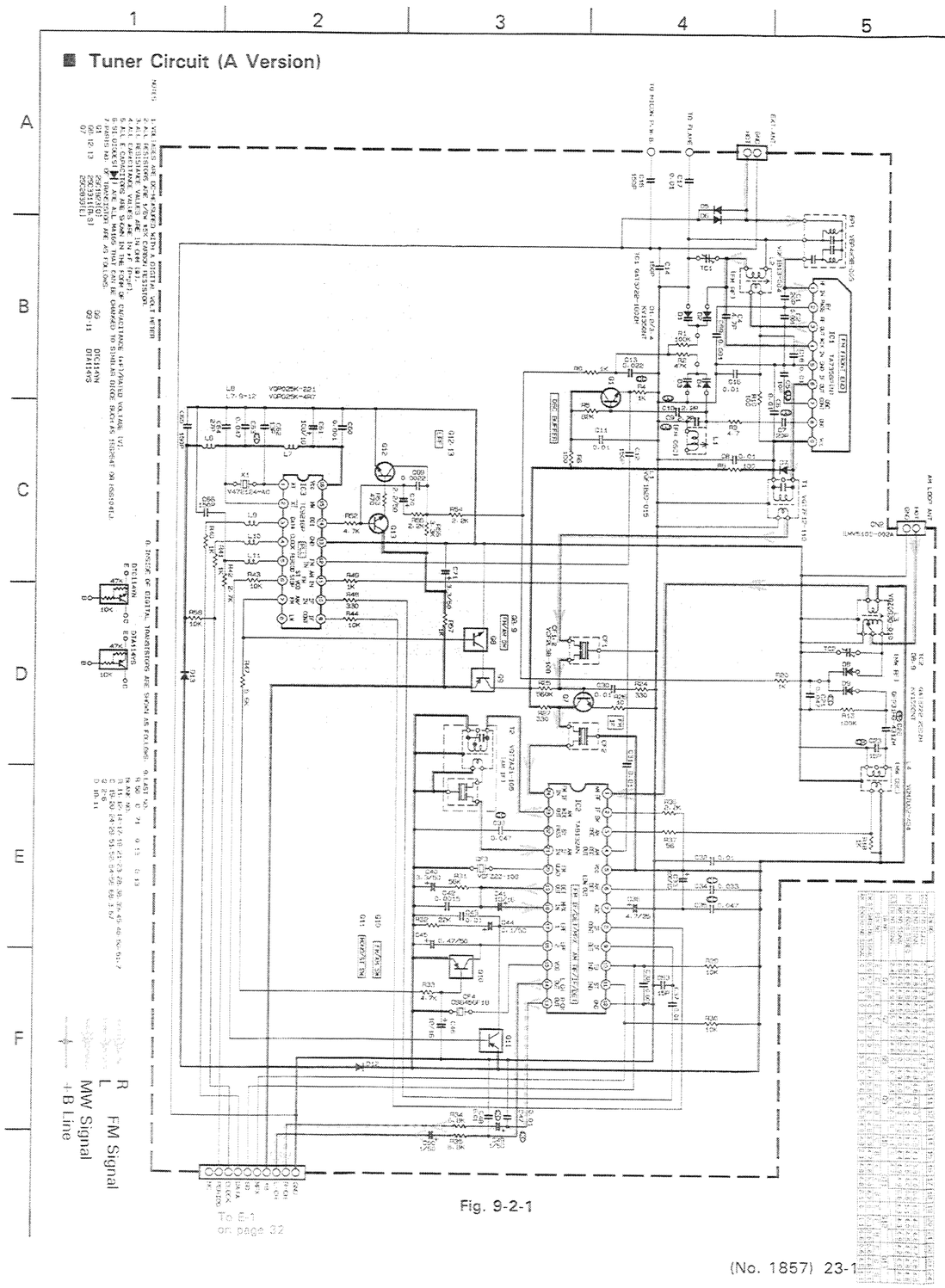


Fig. 9-2-1

■ Tuner Board

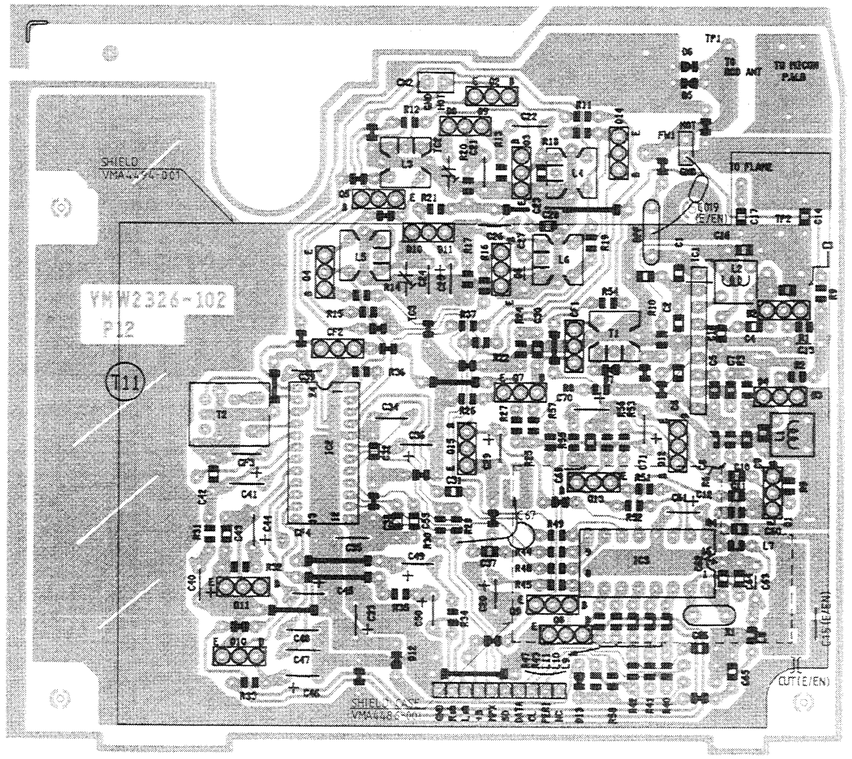


Fig. 9-2-2

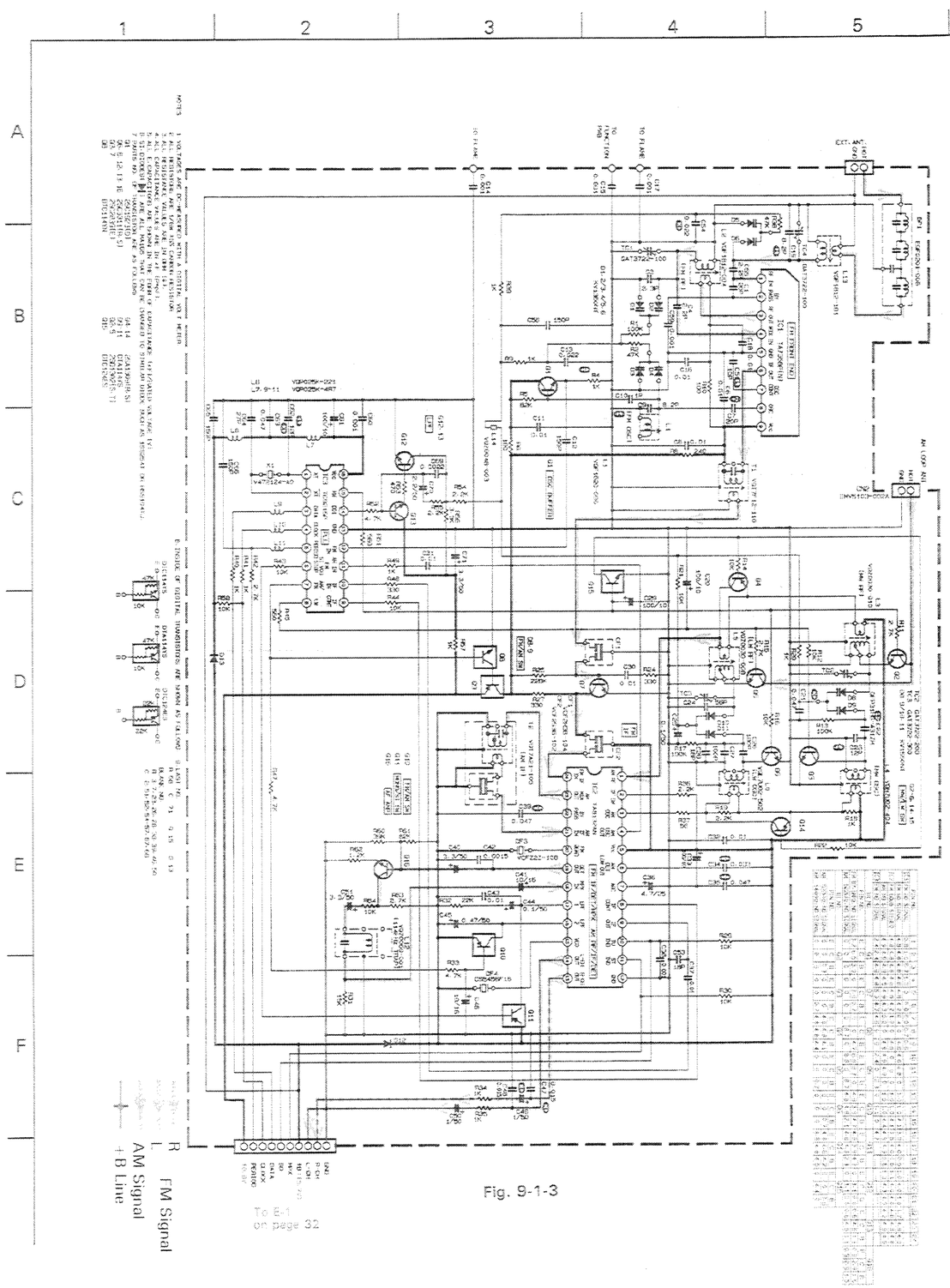
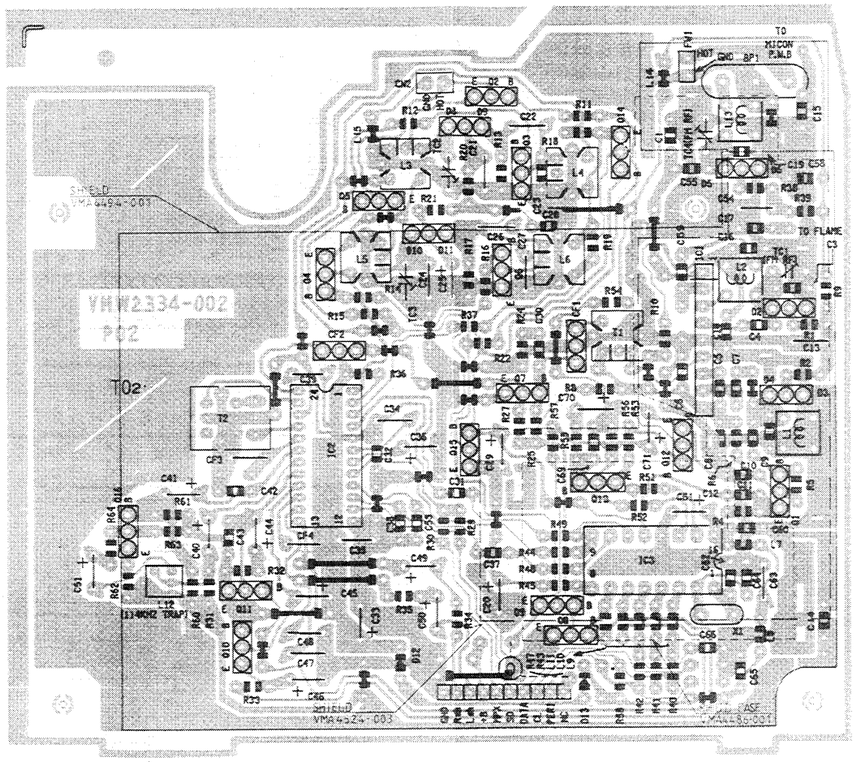


Fig. 9-1-3

■ Tuner Board



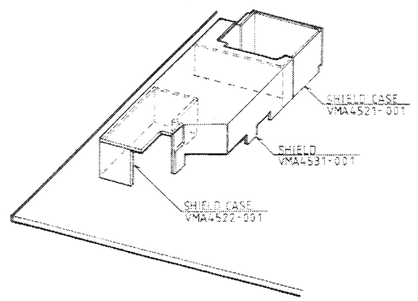
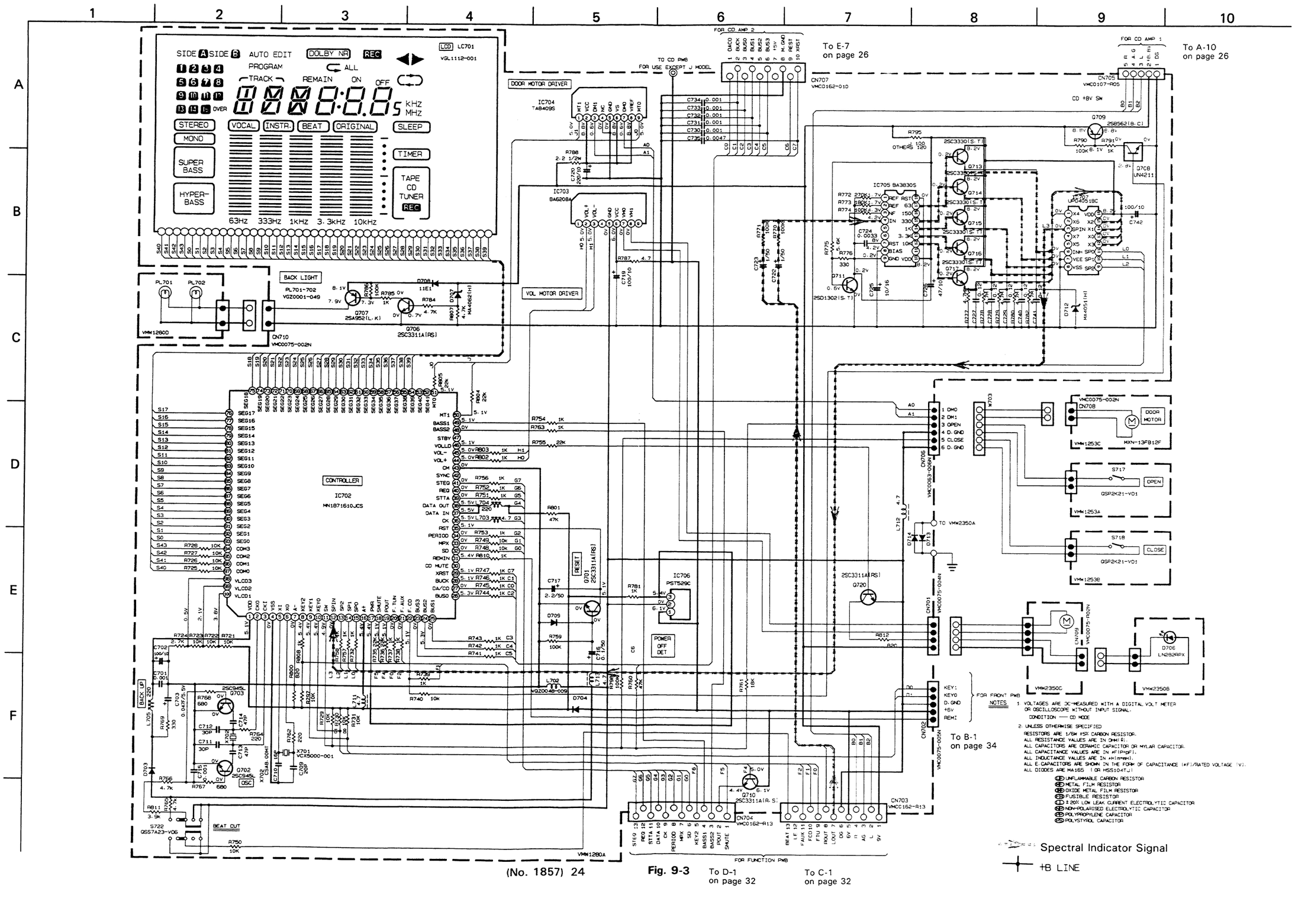


Fig. 9-2-3

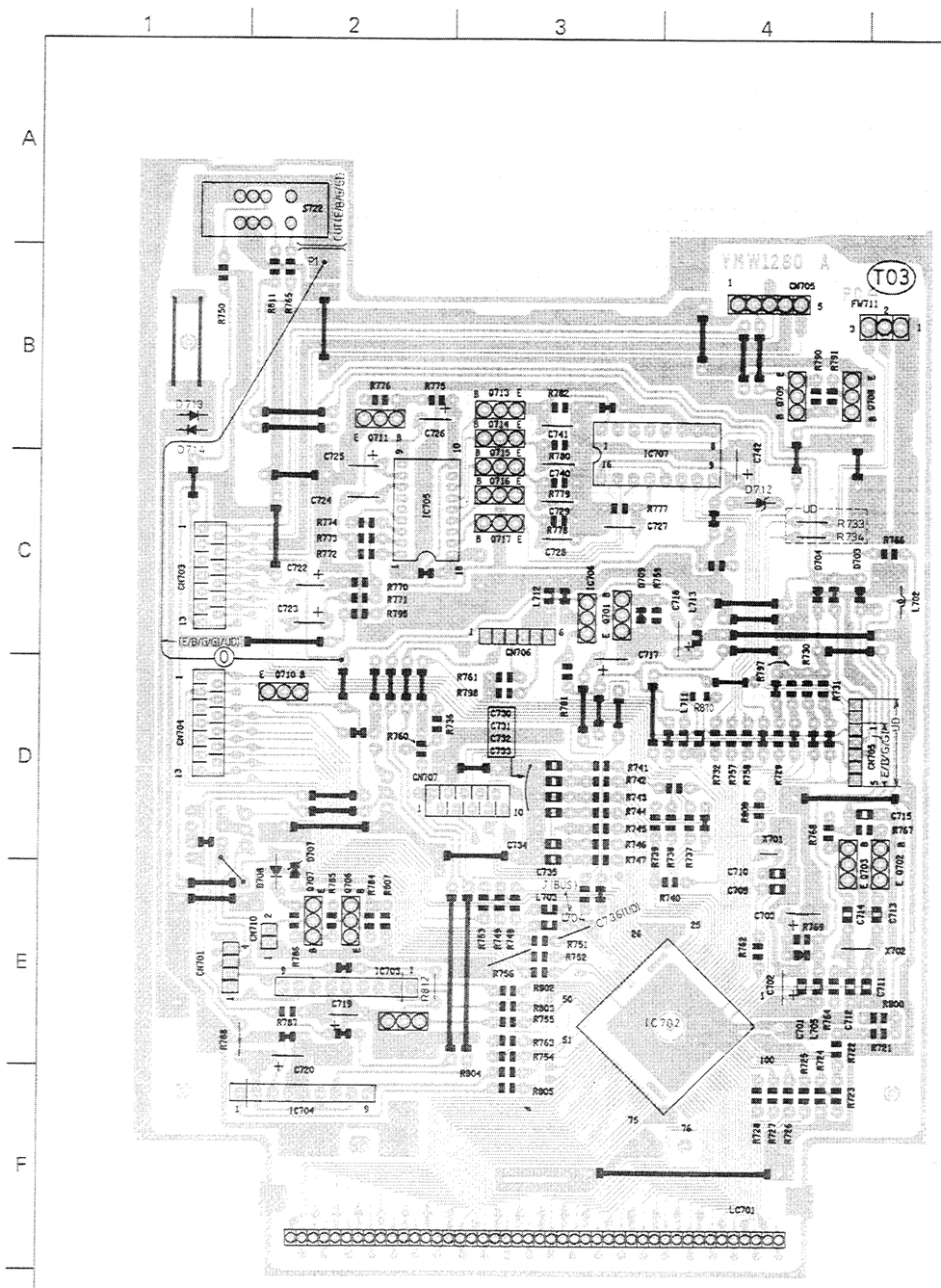
■ Microprocessor/LCD Circuit



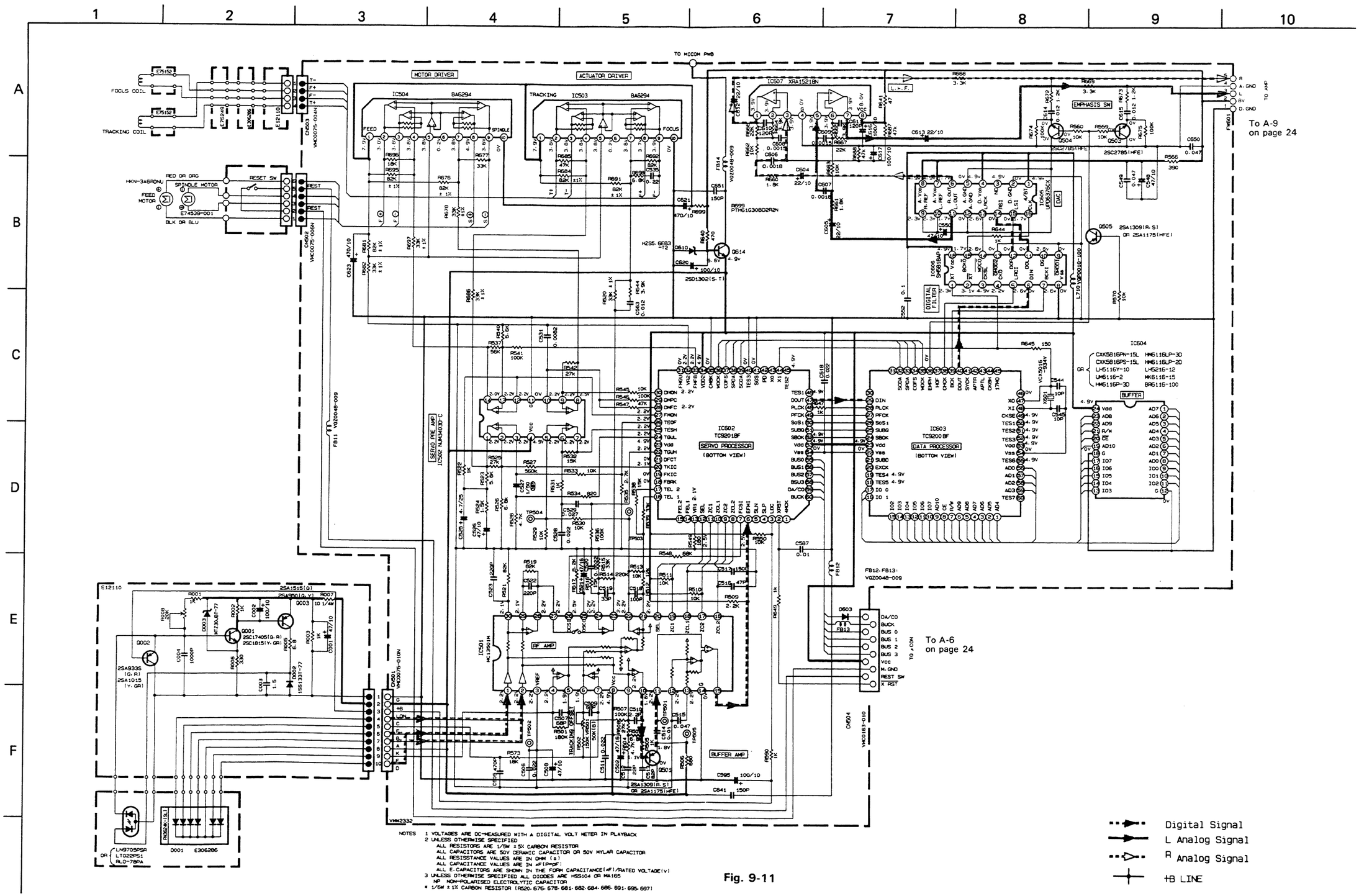
(No. 1857) 24

Fig. 9-3

■ Microprocessor Board



■ CD Amplifier Circuit



NOTES
1 VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER IN PLAYBACK
2 UNLESS OTHERWISE SPECIFIED
ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR
ALL RESISTANCE VALUES ARE IN OHM (Ω)
ALL CAPACITANCE VALUES ARE IN μF(P=pF)
ALL E.CAPACITORS ARE SHOWN IN THE FORM CAPACITANCE(μF)/RATED VOLTAGE(V)
3 UNLESS OTHERWISE SPECIFIED ALL DIODES ARE HSS104 OR MA165
NP NON-POLARISED ELECTROLYTIC CAPACITOR
* 1/6W ±1% CARBON RESISTOR (R520.676-678.681-682.684-686.691-695.697)

Fig. 9-11

■ CD Amplifier Board Block 0 3

Regarding the parts list, refer to table 03 on page 44.

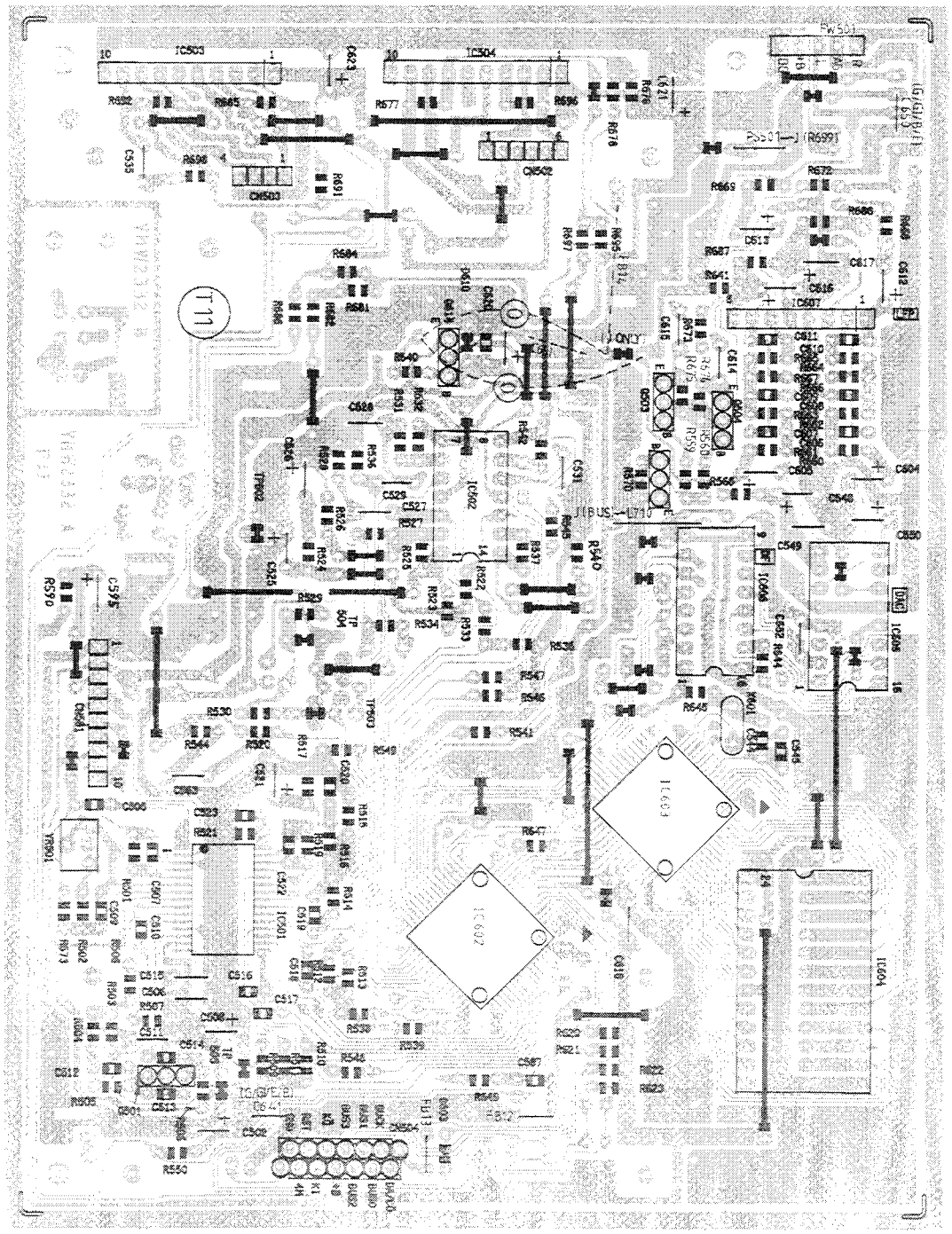


Fig. 9-12

■ Power Supply/Power Amplifier Circuit Block 0 4

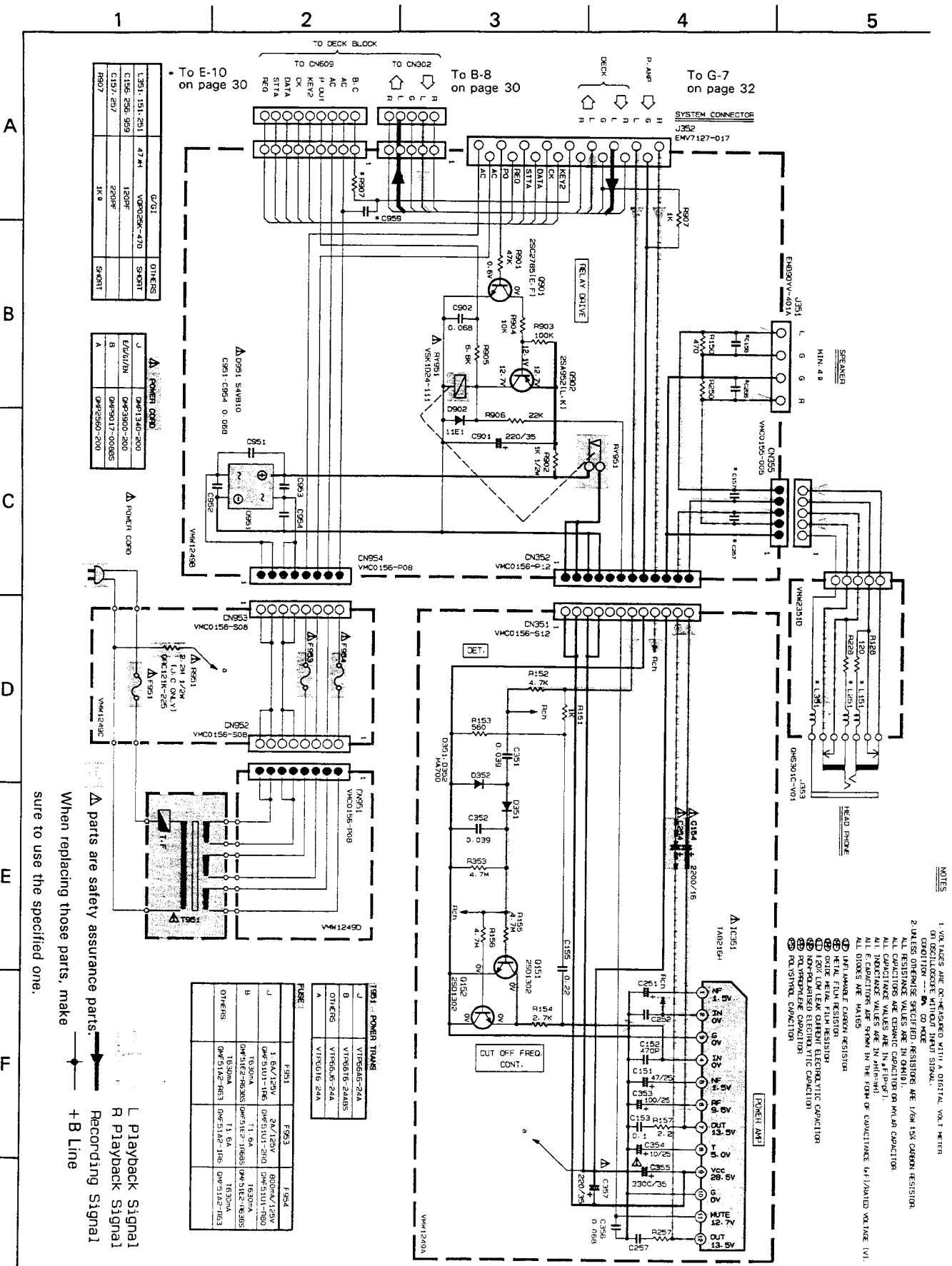


Fig. 9-13

1 2 3 4 5 6 7 8 9 10

A B C D E F

■ Relay Drive Board

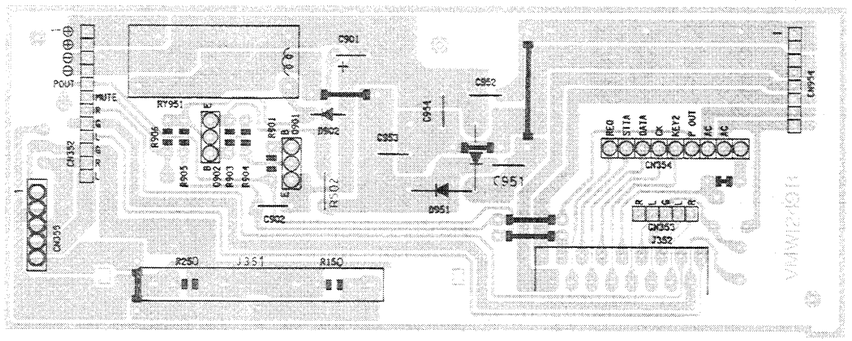


Fig. 9-14

■ Power Amplifier Board

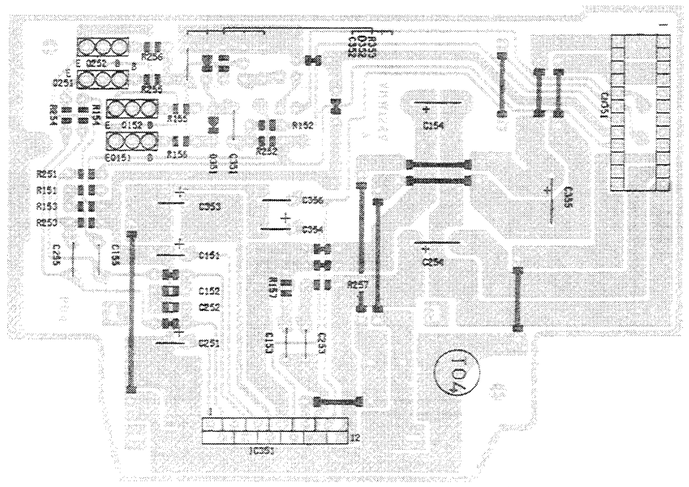


Fig. 9-15

Power supply relay board

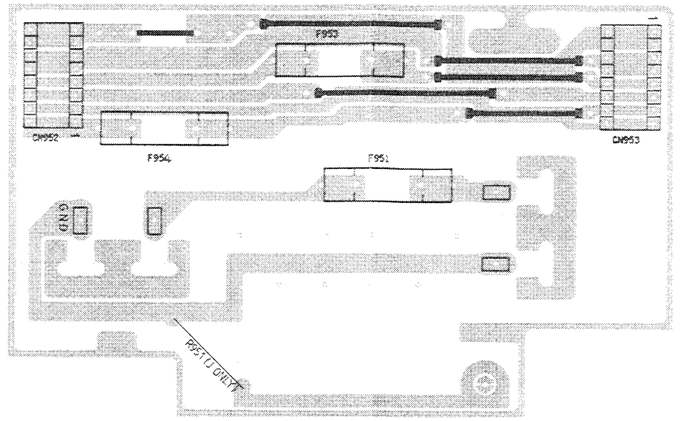


Fig. 9-16

■ Headphone Jack Board

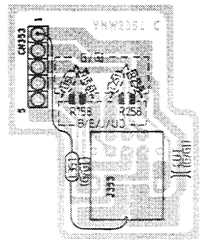


Fig. 9-17

Power supply relay board

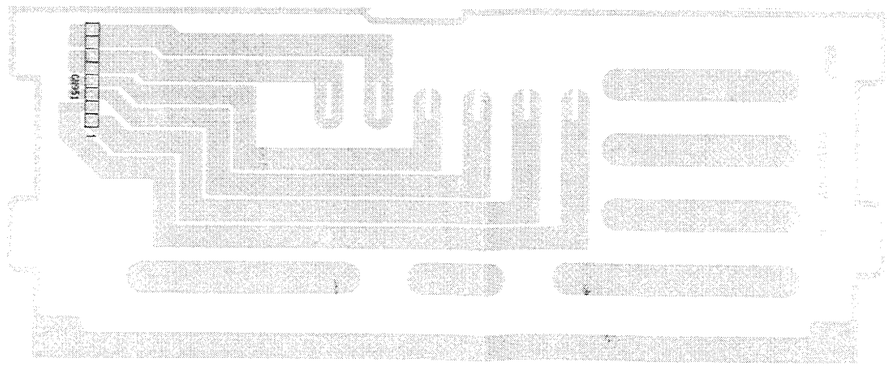
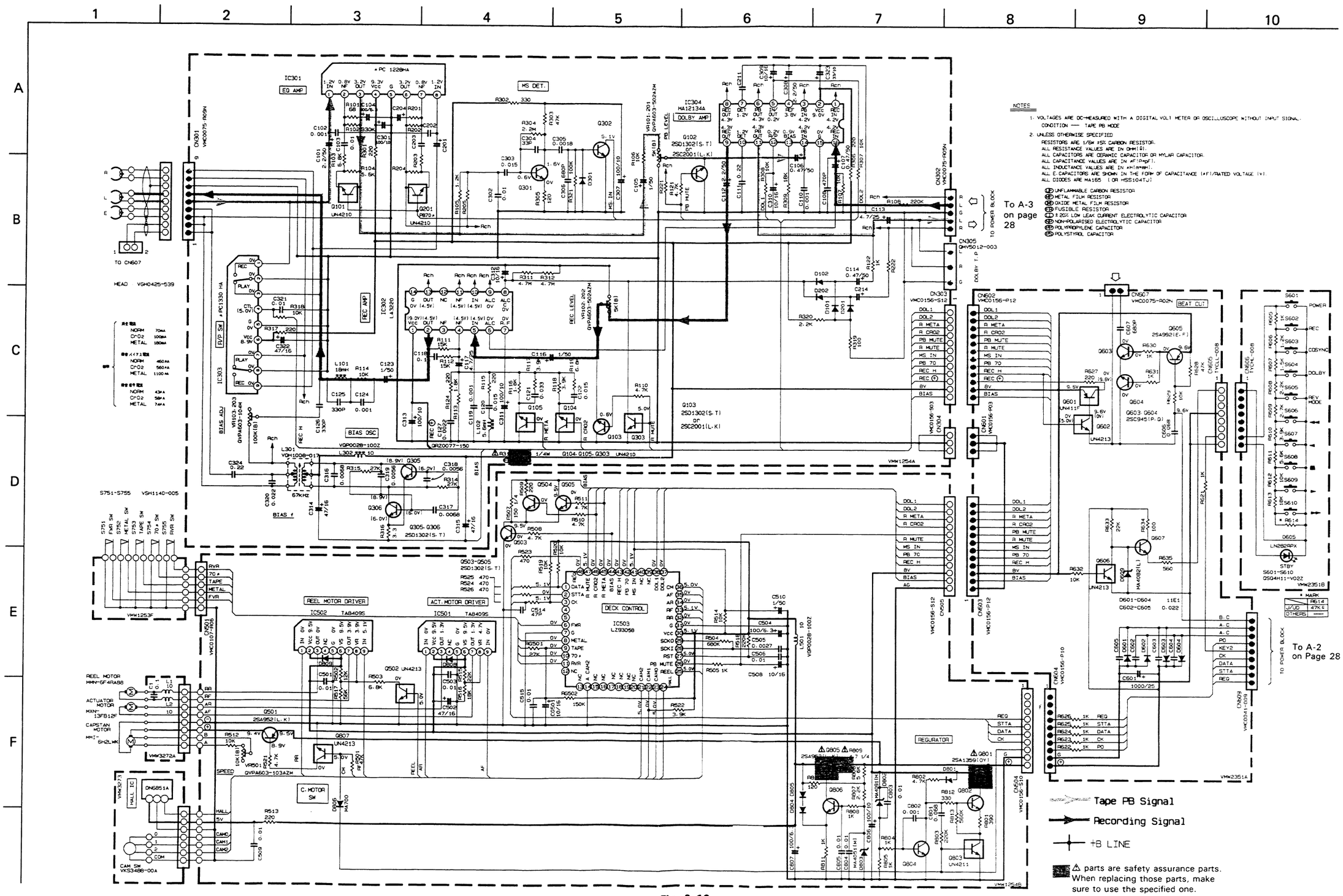


Fig. 9-18

■ Cassette Amplifier/Control Circuit Block 05



(No. 1857) 30 **Fig. 9-19**

Block 0 5 Regarding the parts list, refer to table 05 on page 47.

1 2 3 4 5 6 7 8 9 10

A B C D E F

■ Pre Amplifier Board

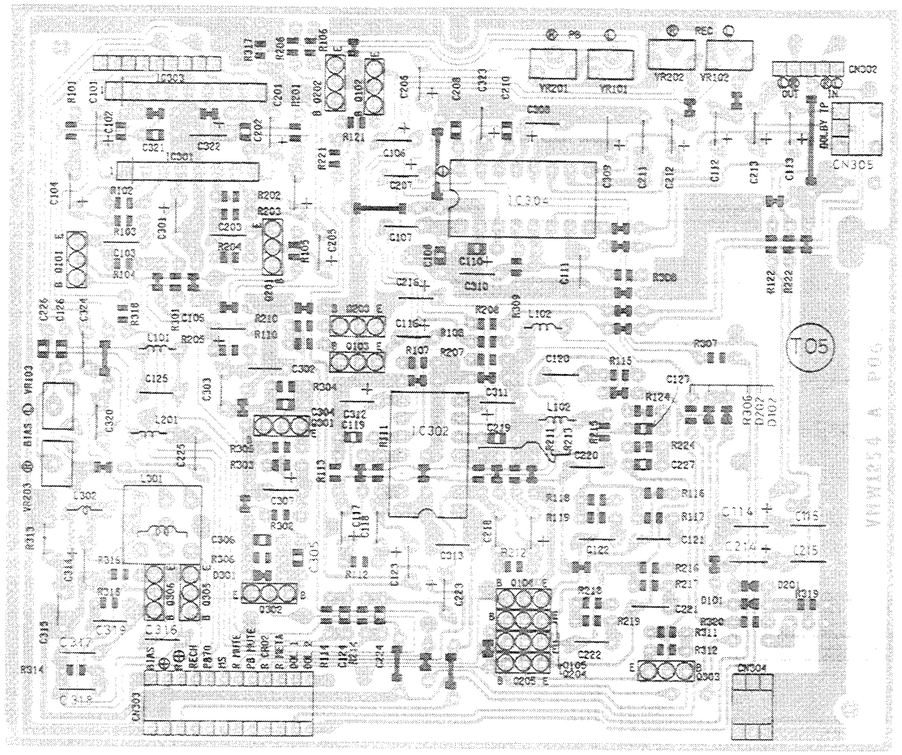


Fig. 9-20

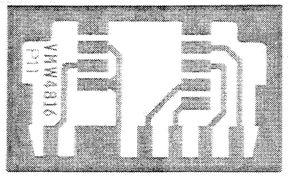


Fig. 9-23

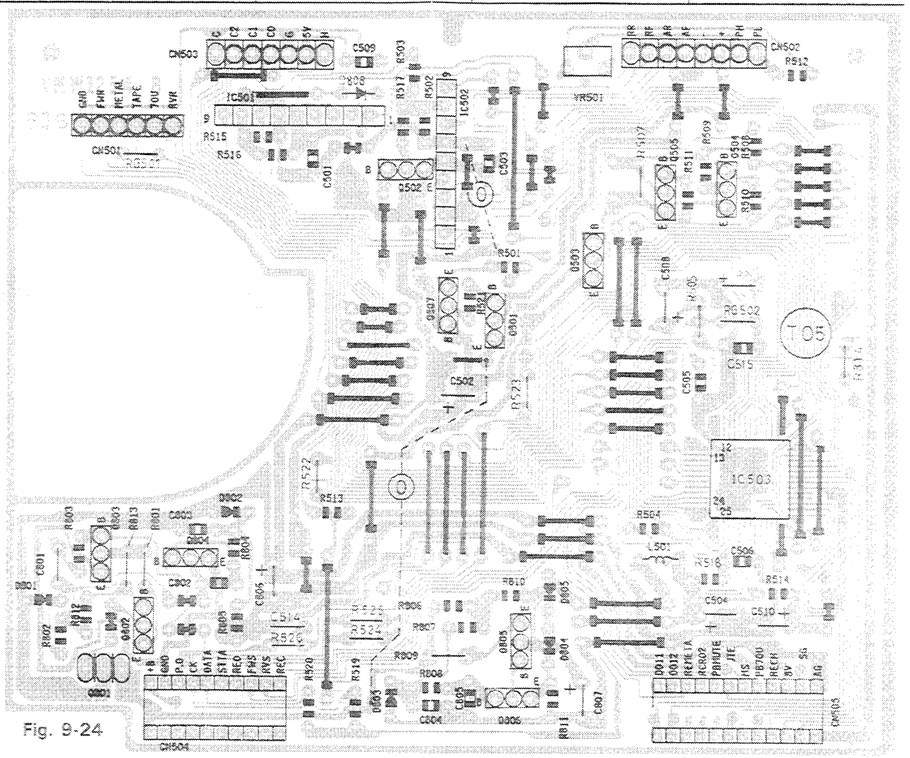


Fig. 9-24

■ Signal Relay Board

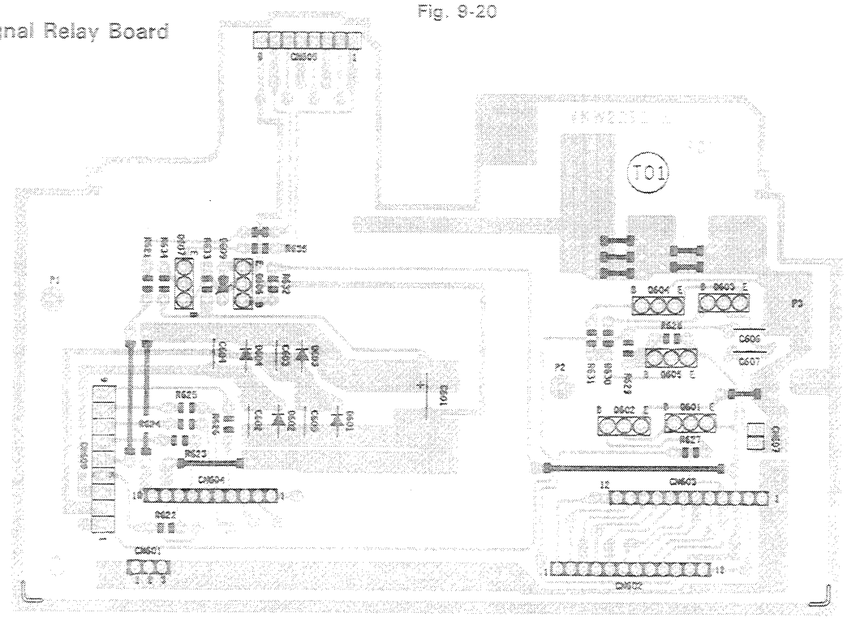


Fig. 9-21

■ Leaf Switch Board

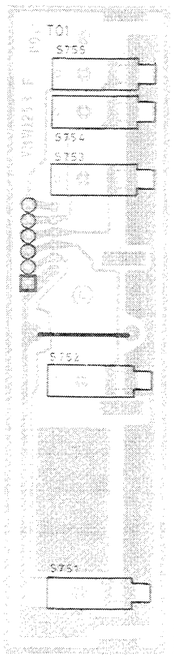


Fig. 9-22

■ Cassette Mechanism Control Key Board

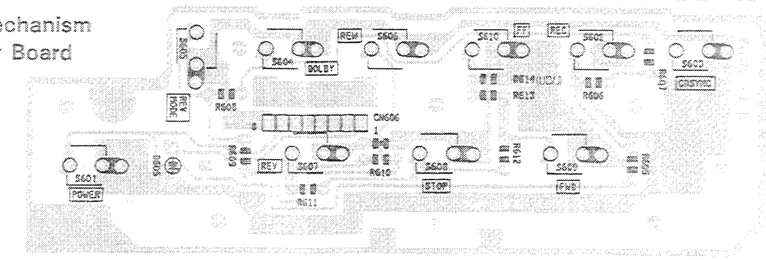


Fig. 9-25

■ Reel Motor Board

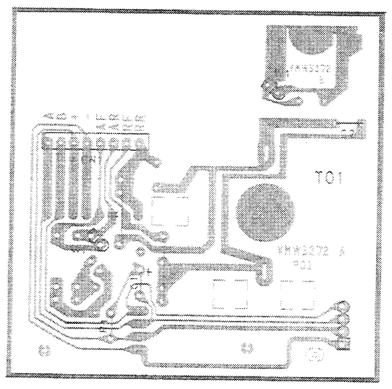


Fig. 9-26

■ Cam Switch Board

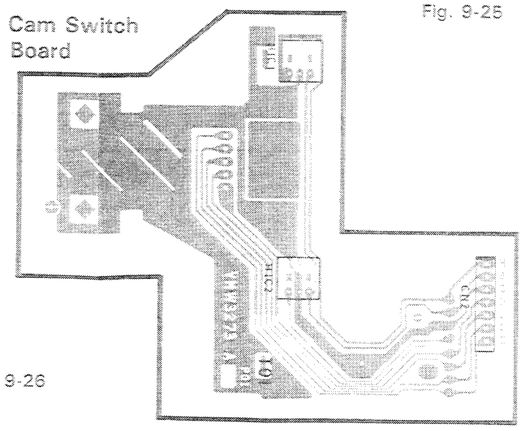
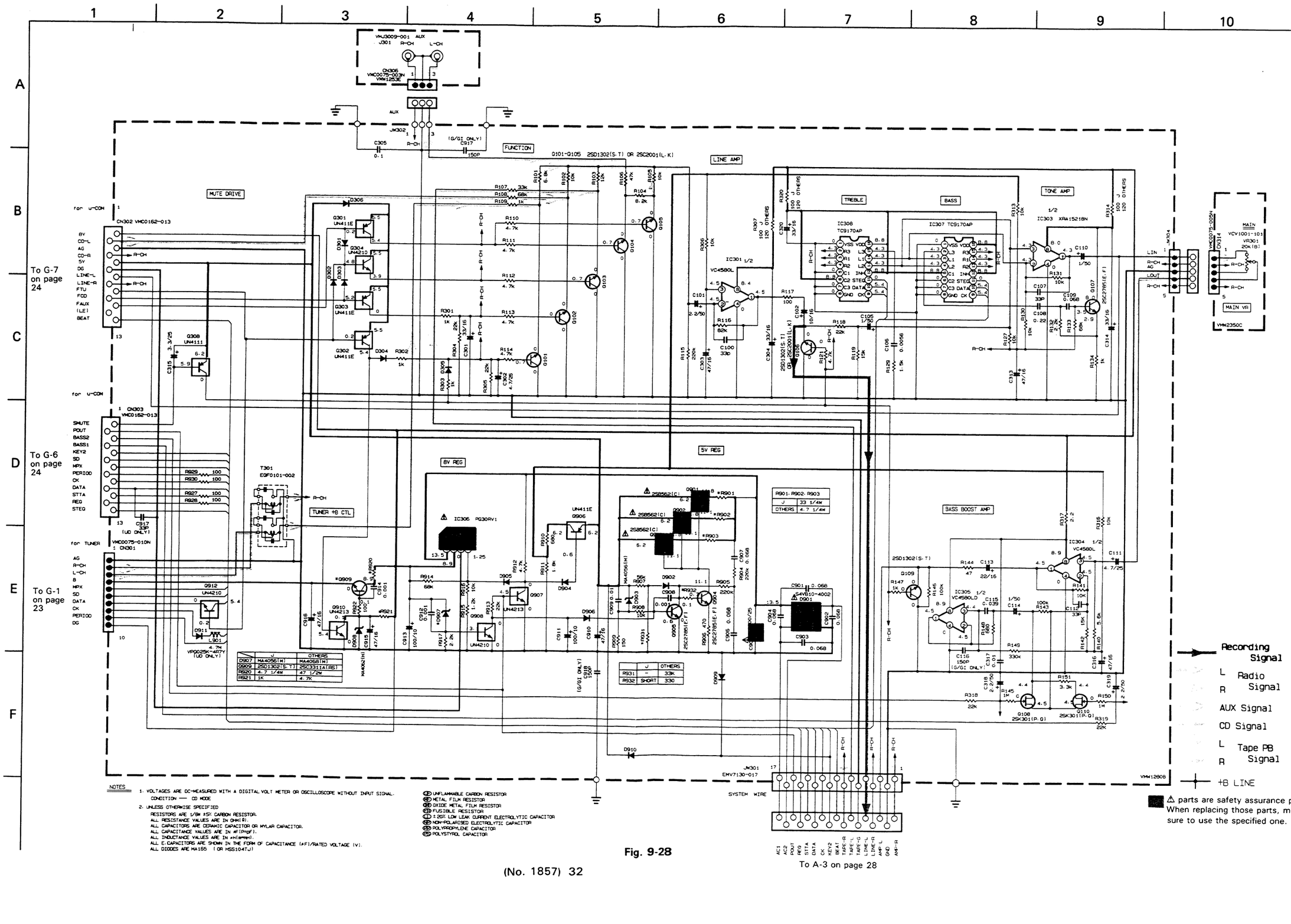


Fig. 9-27 (No. 1857)

■ Function Circuit Block 0 6



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION — CD MODE
2. UNLESS OTHERWISE SPECIFIED
   RESISTORS ARE 1/8W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(PmpF).
   ALL INDUCTANCE VALUES ARE IN mH(μmH).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE MA165 (OR HSS104TJ)

(E) UNFLAMMABLE CARBON RESISTOR
(M) METAL FILM RESISTOR
(MO) OXIDE METAL FILM RESISTOR
(F) FUSIBLE RESISTOR
(D) ±20% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR
(ND) NON-POLARISED ELECTROLYTIC CAPACITOR
(PP) POLYPROPYLENE CAPACITOR
(PS) POLYSTYROL CAPACITOR

Fig. 9-28

Function Board Block 0 6

Regarding the parts list, refer to table 06 on page 51.

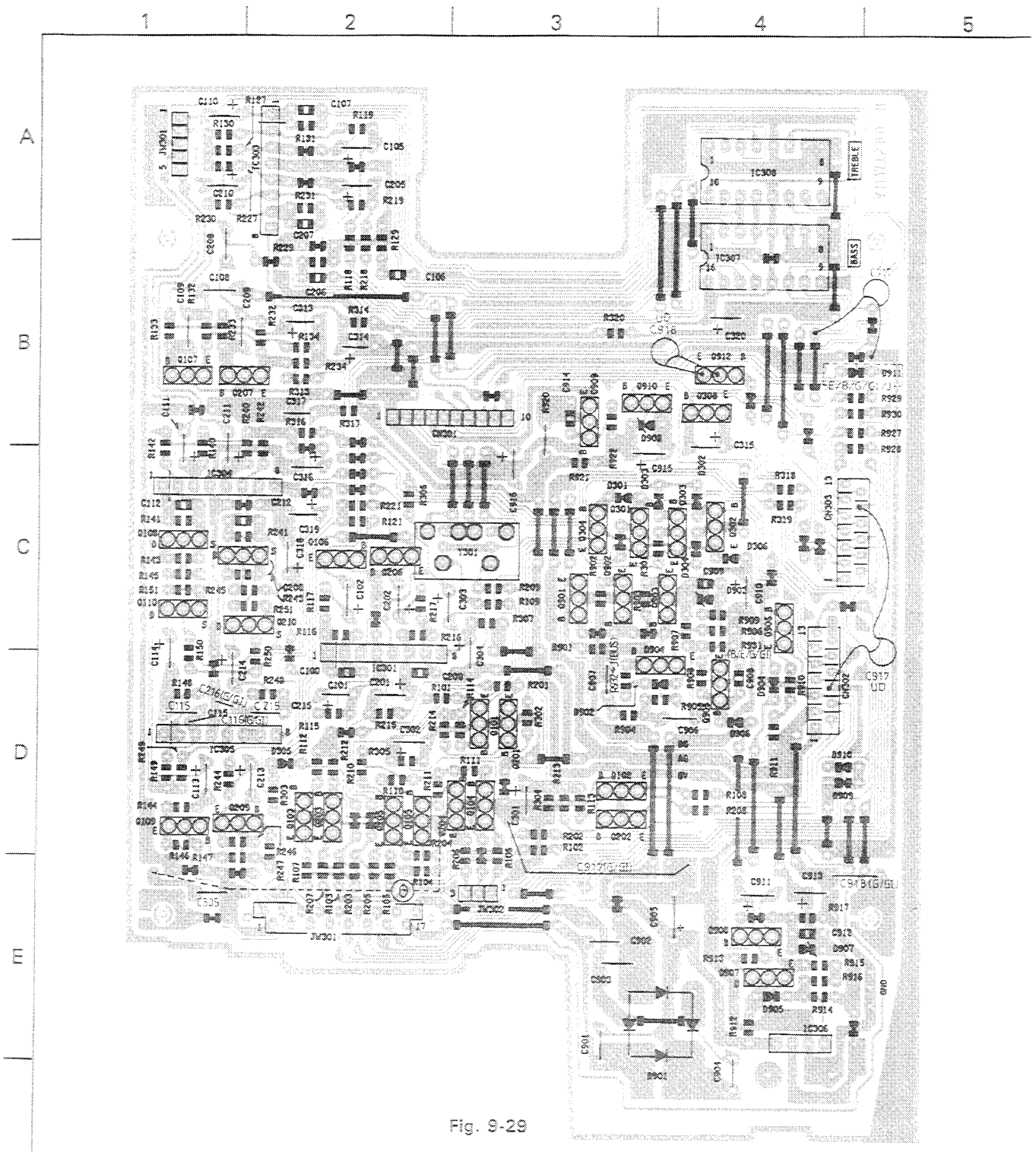


Fig. 9-29

Aux Jack Board

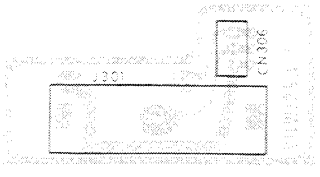


Fig. 9-30

Volume Board

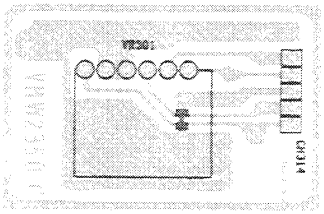


Fig. 9-31

■ CD Key Circuit Block 0 7

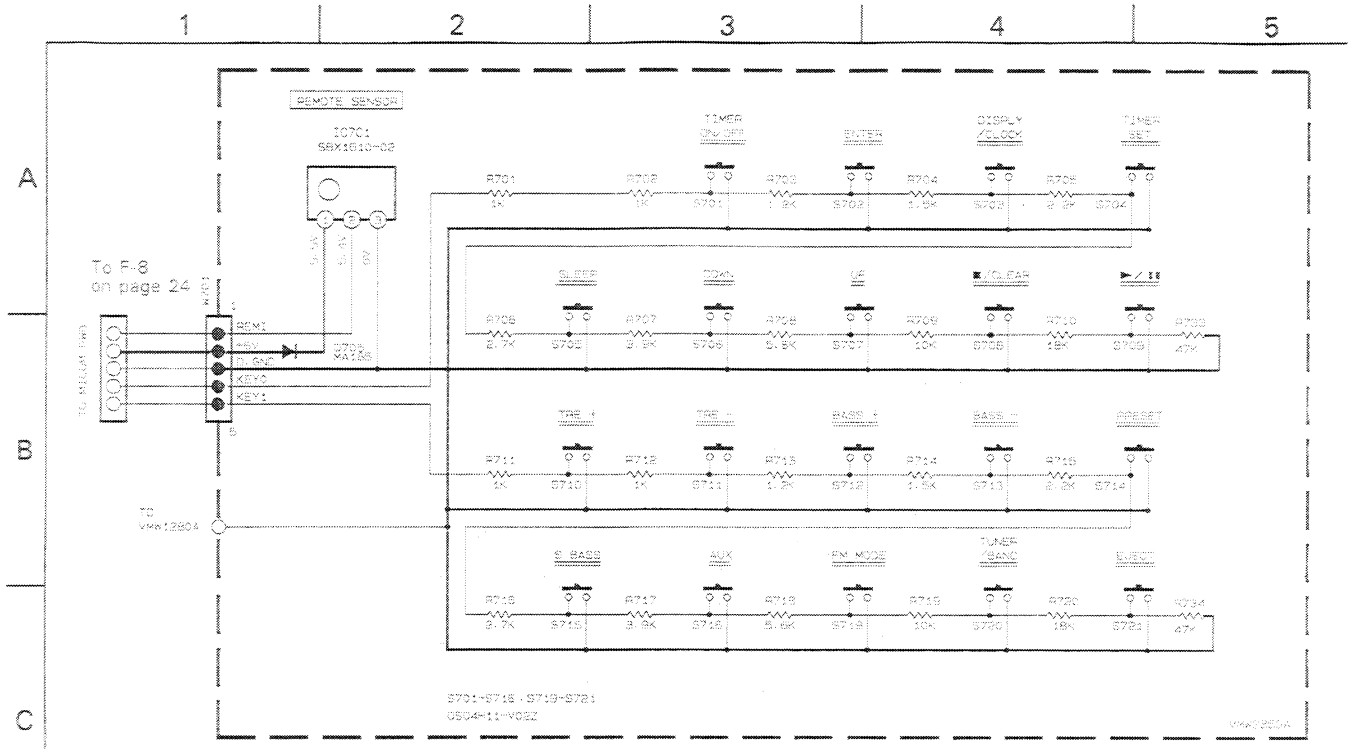


Fig. 9-32

■ CD Key Board Block 0 7

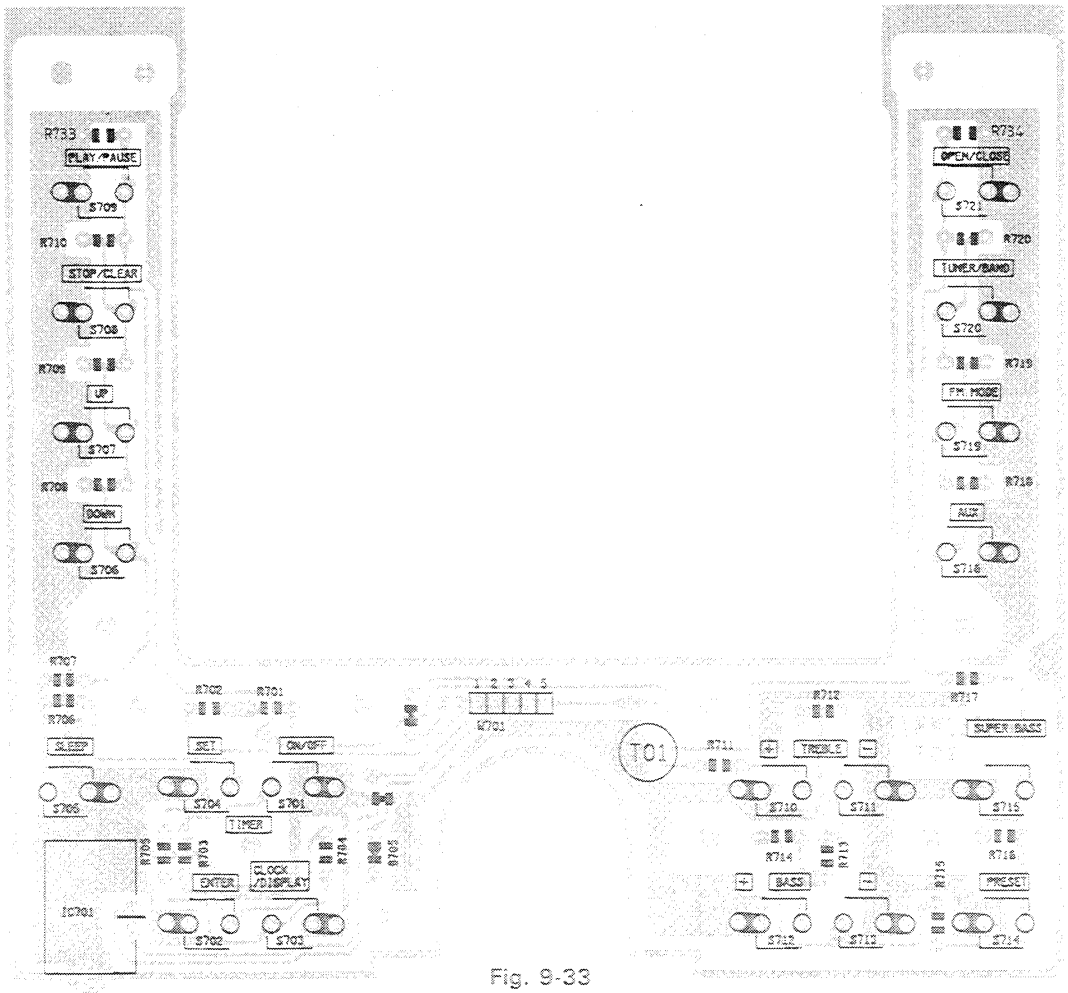


Fig. 9-33

10 Exploded View of Enclosure Component and Parts List

■ Deck/Power Supply Section Block M 1

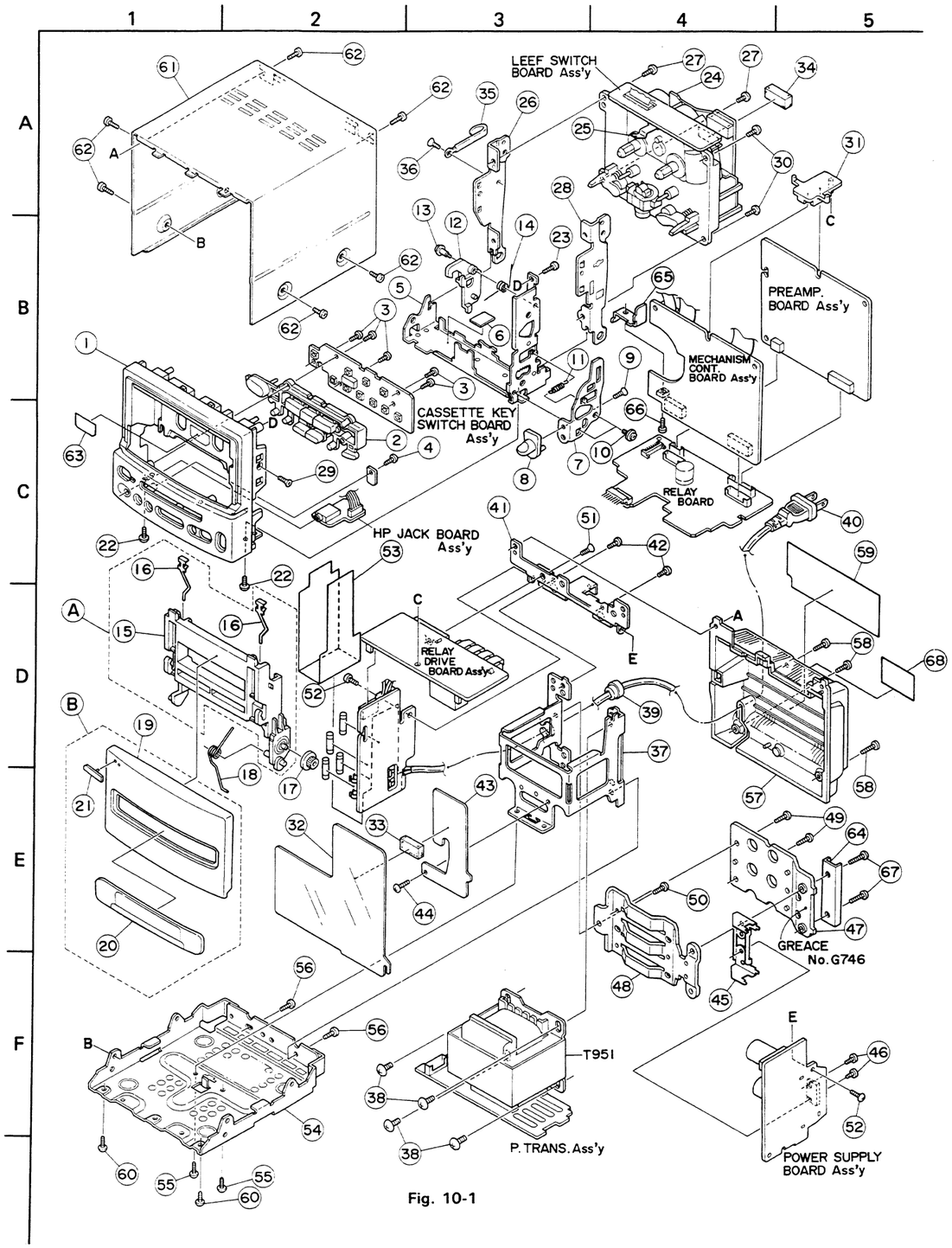


Fig. 10-1

■ Deck/Power Section Parts List BLOCK NO. M1MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	ZCUXDA5K-CH	FRONT CABINET	SERVICE PARTS	1		
	B	ZCUXDA5K-CLB	CASSETTE LID	SERVICE PARTS	1		
	1	VJG1088-001	FRONT CABIMET	(D)	1		
	2	VXP3489-001	BUTTON		1		
	3	SBSF2608Z	SCREW	FRONT+PCB	5		
	4	SBSF2608Z	SCREW	H.PHONES	1		
	5	VYH7345-003	DOOR HOLDER		1		
	6	VYSS1R4-022	SPACER		1		
	7	VYH7346-001	EJECT LEVER		1		
	8	VXQ4109-001	EJECT KNOB		1		
	9	SSSF2608Z	SCREW	EJECT KNOB	1		
	10	VKZ4323-002	SCREW	EJECT LEVER	2		
	11	VKW3002-274	TENSION SPRING	EJECT LEVER	1		
	12	VYH7347-001	EJECT ARM	POM	1		
	13	VKZ4341-001	SPECIAL SCREW	EJECT ARM	1		
	14	VKW4938-001	TORTION SPRING	FOR EJECT ARM	1		
	15	VJT2263-002	C.DOOR HOLDER		1		
	16	VKY4180-001	CASSETTE SPRING		2		
	17	VYH5601-001	GEAR		1		
	18	VKW4939-003	DOOR SPRING		1		
	19	VJT2297-002	DOOR COVER	CASSETTE	1	A,B,E,GI,EN	
		VJT2297-003	DOOR COVER	CASSETTE	1	G	
	20	VJT4193-001	DOOR LENS		1		
	21	E406971-222	JVC MARK		1		
	22	SBST3006Z	SCREW	D.HOL+F.PANEL	2		
	23	SBSF3010Z	SCREW	D.HOL+F.PANEL	1		
	24	----------	MECHA ASS'Y		1		
	25	VKY4628-002	PACK SPRING		1		
	26	VYH7351-001	MECHA HOLDER L		1		
	27	SBST3008Z	SCREW		2		
	28	VYH7352-001	MECHA HOLDER R		1		
	29	SSST3006Z	SCREW	M.HOL+F.PANEL	1		
	30	SBST3008Z	SCREW		2		
	31	VYH7353-001	PCB HOLDER		1		
	32	VMA4556-001	INSULATOR		1		
	33	VYSH105-033	SPACER		1		
	34	VYSH106-051	SPACER	MECHA PCB	1		
	35	VKZ4001-111	WIRE HOLDER		1		
	36	SSST3006Z	SCREW		1		
	37	VYH3658-002	TRANS BRACKET		1		
	38	SBST4006Z	SCREW	TRANS	4		
⚠	39	QHS3876-162	S.R.BUSHING	AC CORD	1	A	
⚠		QHS3876-162BS	S.R.BUSHING	AC CORD	1	B	
⚠	40	QMP2560-200	POWER CORD		1	A	
⚠		QMP3900-200	POWER CORD		1	E,G,EN,GI	
⚠		QMP9017-008BS	POWER CORD		1	B	
	41	VYH7355-001	JACK HOLDER		1		
	42	SBST3006Z	SCREW	JACK.H X TRANS.	2		
	43	VMA4485-001	SHIELD PLATE		1		
	44	SDST3004Z	SCREW	FOR SHIELD	1		
	45	VYH7360-001	IC HOLDER		1		
	46	SDST2603Z	SCREW	IC X IC HOLDER	2		
	47	VYH7361-001	RADIATION (A)		1		
	48	VYH7362-001	RADIATION (B)		1		
	49	SBSF3008Z	SCREW	(A) X (B)	2		
	50	SBST3006Z	SCREW	RADI X TRANS BK	1		
	51	SSSF3008Z	SCREW	J.HOL X JACK	1		
	52	SBST3006Z	SCREW	J.HOLDER X PCB	2		
	53	VMA4507-001	BARRIER	FOR FUSE PCB	1		
	54	VJC3205-001	BOTTOM COVER		1		
	55	SBST3006Z	SCREW	TRANS BKT	2		
	56	SBST3006Z	SCREW	TRANS BKT	2		
	57	VJC1960-013	REAR PANEL		1	A	
		VJC1960-009	REAR PANEL (D)		1	B,E	
	58	SDST3008M	SCREW	FOR REAR	2		
⚠	59	VYN9181-122	NAME PLATE		1	E,EN	
⚠		VYN9181-124	NAME PLATE		1	G	
⚠		VYN9181-128	NAME PLATE		1	GI	
⚠		VYN9181-131	NAME PLATE		1	A	
⚠		VYN9181-123	NAME PLATE		1	B	
	60	SBST3006Z	SCREW		2		
	61	VJC2412-002	TOP COVER		1		
	62	SDST3008M	SCREW		6		
	63	VJD4005-002	REFLECTION PLAT		1		
	64	VYH7478-001	HEAT SINK (A)		1		
	65	VYH7479-001	HEAT SINK (B)		1		
	66	SDST2608Z	SCREW		1		
	67	GBSF3010Z	SCREW		2		

■ CD/Tuner Section Block M 2

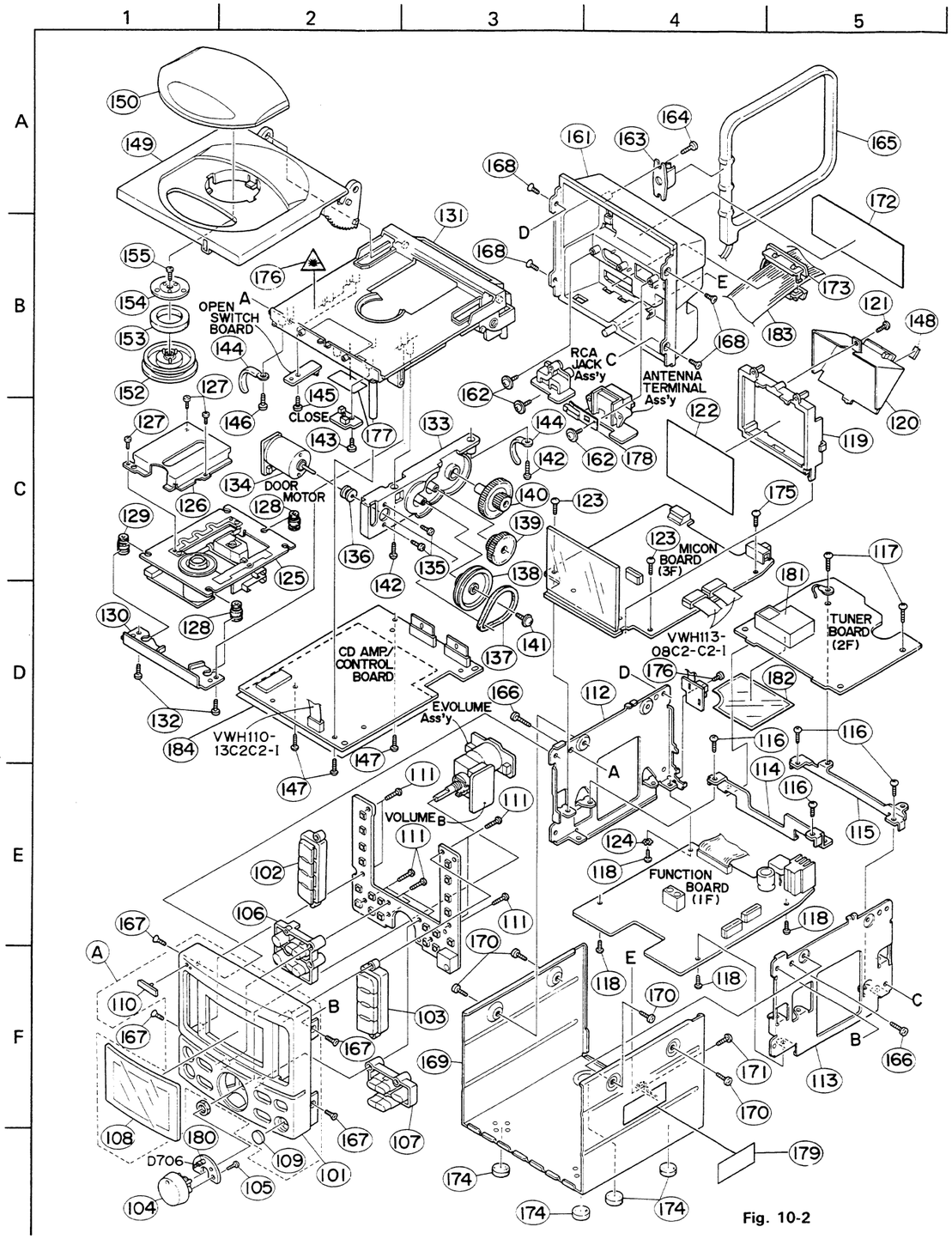


Fig. 10-2

■ CD/Tuner Section Parts List

BLOCK NO. M2MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	ZCUXRA5E-FB	FRONT CABINET	SERVICE PARTS	1	A,B,E,EN,GI	
		ZCUXRA5G-FB	FRONT CABINET	SERVICE PARTS	1	G	
	101	VJG1091-003	FRONT PANEL		1	E,B,EN,GI	
		VJG1091-004	FRONT PANEL		1	G	
	102	VXP3498-00A	BUTTON ASSY(L)	CD OPERATION L	1		
	103	VXP3498-00A	PUSH BUTTON	CD OPELATION R	1		
	104	VXL4406-001	VOLUME KNOB		1		
	105	SBSF2006Z	SCREW	LED BOARD	1		
	106	VXP3499-002	PUSH KNOB		1		
	107	VXP3500-001	PUSH KNOB		1		
	108	VJT4194-001	LCD LENS		1		
	109	VJK4387-001	REMOTE LENS		1		
	110	E406971-222	JVC MARK		1		
	111	SBSF2610Z	SCREW	F.PWB+F.PANEL	9		
	112	VYH3656-001	SIDE CHASSIS(L)		1		
	113	VYH3657-001	SIDE CHASSIS(R)		1		
	114	VYH7349-001	CHASSIS BRACKET		1		
	115	VYH7350-001	CHASSIS BRACKET		1		
	116	SBST3006Z	SCREW	S.CHASSIS+S.BKT	4		
	117	SBST3006Z	SCREW	TU PWB+CHASSIS	2		
	118	SBST3006Z	SCREW	FUNC.PWB+CHASSI	4		
	119	VYH3720-001	LCD HOLDER		1		
	120	VYH3723-002	LAMP CASE		1		
	121	SBSF2606Z	SCREW	LAMP CASE+HODER	1		
	122	VYTT597-003	LCD FILTER		1		
	123	SBST3006Z	SCREW	CPU PWB+CHASSIS	2		
	124	WBS300N	WASHER		1		
	125	EXL-M5DK	CD MECHA		1		
	126	VJD5318-002	PICK COVER		1		
	127	SDST2006M	SCREW	CD MECHA+P.COVE	3		
	128	E75609-001	INSULATOR		2		
	129	E75609-002	INSULATOR		1		
	130	VYH7297-102	HOLDER		1		
	131	VJD1149-004UL	CD CASE		1		
	132	SBSF3010Z	SCREW	HOLDER+CD CASE	2		
	133	VYH3659-001	GEAR BRACKET		1		
	134	MXN-13FB12F	DC MOTOR ASS'Y		1		
	135	SPSP3004Z	SCREW	MOTOR+GEAR BKT	2		
	136	VYH7699-001	PULLEY		1		
	137	VKB3000-144	BELT		1		
	138	VYH7356-002	PULLEY		1		
	139	VYH7357-001	GEAR(A)		1		
	140	VYH7358-001	GEAR(B)		1		
	141	GBSF3006Z	SCREW	PULLEY+GEAR BKT	1		
	142	SBSF3010Z	SCREW	CD CASE+GEAR BK	2		
	143	SBSF3006Z	SCREW	SW-PWB+CD CASE	1		
	144	VKZ4001-110	WIRE CLAMP		2		
	145	SBSF3010Z	SCREW		1		
	146	SBSF3010Z	SCREW		1		
	147	SBSF3010Z	SCREW	CD AMP PWB+CD	3		
	148	VYSH104-044	SPACER		1		
	149	VJT2306-003	CD DOOR		1		
	150	VJT3311-005	CD DOOR LENS		1		
	152	VYH3726-001	CLAMPER		1		
	153	VYH7313-001R	MAGNET		1		
	154	VYH7677-001	YOKE		1		
	155	SDSF2606Z	SCREW	CLAMPER+C.PLATE	1		
	161	VJC1962-205	REAR PANEL(T)		1		
	162	E65923-003	T.SCREW	JACK-PWB+R.PANE	3		
	163	VJD5335-001	LOOP ANT HOLDER		1		
	164	SDSF3010M	SCREW		1		
	165	VQZ0029-005	AM LOOP ANTENA		1		
	166	SDSF3008Z	SCREW	CD+CHASSIS UNI	2		
	167	SSST3006Z	SCREW	FRONT+CHASSIS	4		
	168	SSST3006Z	SCREW	REAR+CHASSIS	4		
	169	VJC2411-003	METAL COVER		1		
	170	SDST3006M	SCREW		4		
	171	SBSF3008M	SCREW		1		
	172	VYN9181-101	NAME PLATE		1		
	173	VYH3662-001	BUSHING		1		
	174	VJF4003-003	FOOT		4		
	175	GBST3006Z	SCREW		1		
	176	E71541-001	E.I.LASER MARK		1		
	177	VND4220-001	LASER CAUTION		1		
	178	VYH7519-001	JACK BRACKET		1		
	179	VND4221-001	CLASS 1 LABEL		1		
	180	VYH7731-001	LED SPACER		1		
	181	VMA4486-001	SHIELD CASE		1		
	182	VMA4551-001	SHIELD SHEET		1		
	183	VMP0092-001	FLAT WIRE ASSY		1		
	184	VMA4502-004	SHIELD PLATE	FOR CD CASE	1		

■ Speaker Section Block M 3

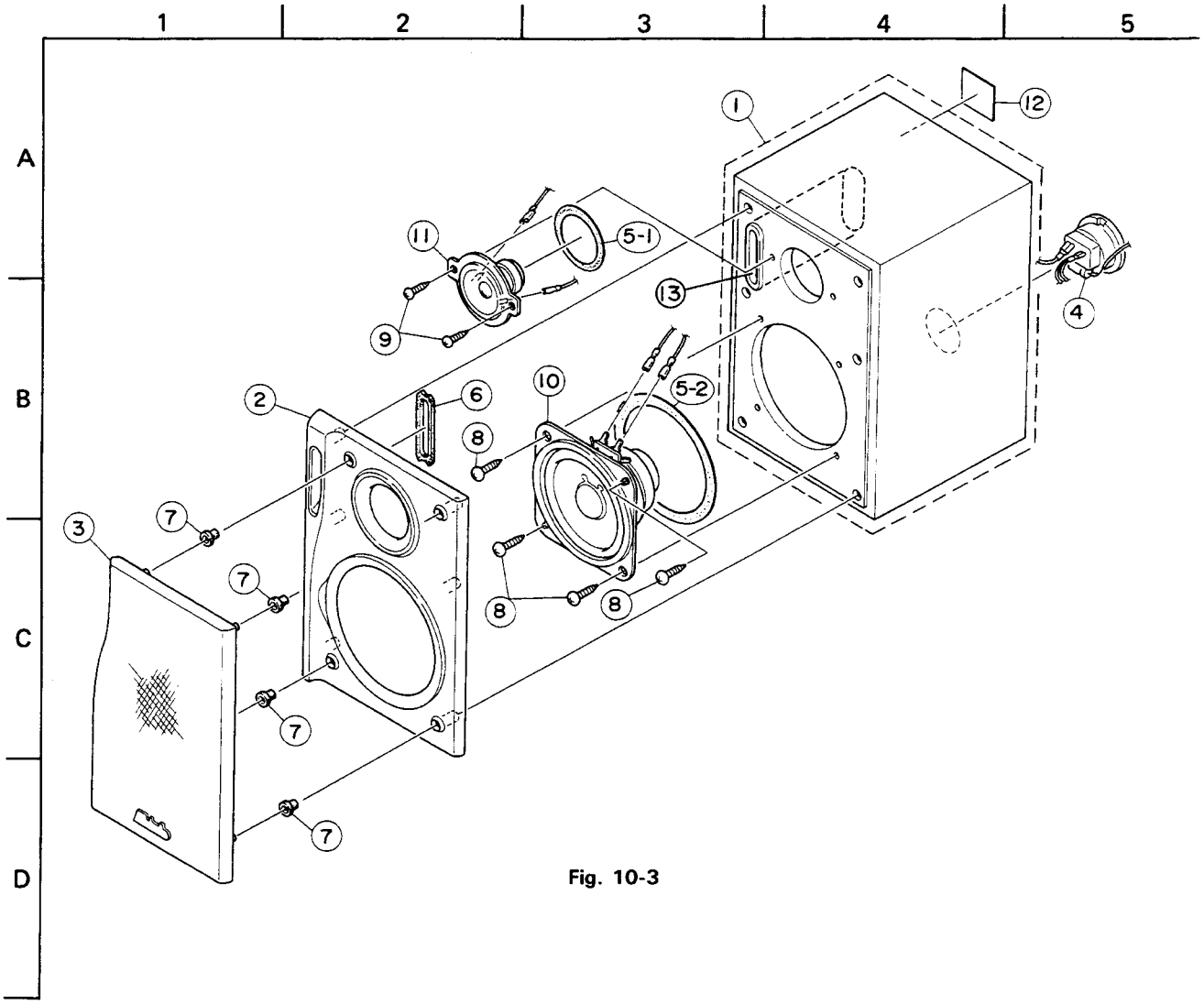


Fig. 10-3

• Speaker Seciton Parts List

BLOCK NO. M3MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	DH505-LUX-B5	SPEAKER BOX	LEFT SIDE	1		
		DH505-RUX-B5	SPEAKER BOX	RIGHT SIDE	1		
	2	DH401-LUX-5	FRONT PANEL	LEFT SIDE	1		
		DH401-RUX-5	FRONT PANEL	RIGHT SIDE	1		
	3	DH903-LUX-B1002	SPEAKER NET	LEFT-WITH MARK	1		
		DH903-RUX-B1002	SPEAKER NET	RIGHT-WITH MARK	1		
	4	203-DHJ-12	SPK TERMINAL		1		
	5-1	DH429-PC-XT7-1	RUBBER SPACER	FOR TWITTER	1		
	5-2	DH429-PC-XT7-2	RUBBER SPACER	FOR WOOFER	1		
	6	DH430-UX-5	RUBBER RING		1		
	7	DH429-4C-638	INSERT NUT		4		
	8	SDSA4014M	WOOD SCREW	FOR WOOFER	4		
	9	SDSA4012M	SCREW		2		
	10	VGS1201-007	CONE SPEAKER	12 CM	1		
	11	VGS0501-003	CONE SPEAKER	5 CM	1		
	12	DH610-UX-B1002	NAME PLATE		1		
	13	DH401-UX-5	DUCT		1		

11 Exploded View of Mechanism Component and Parts List ■ Cassette Mechanism Block M 4

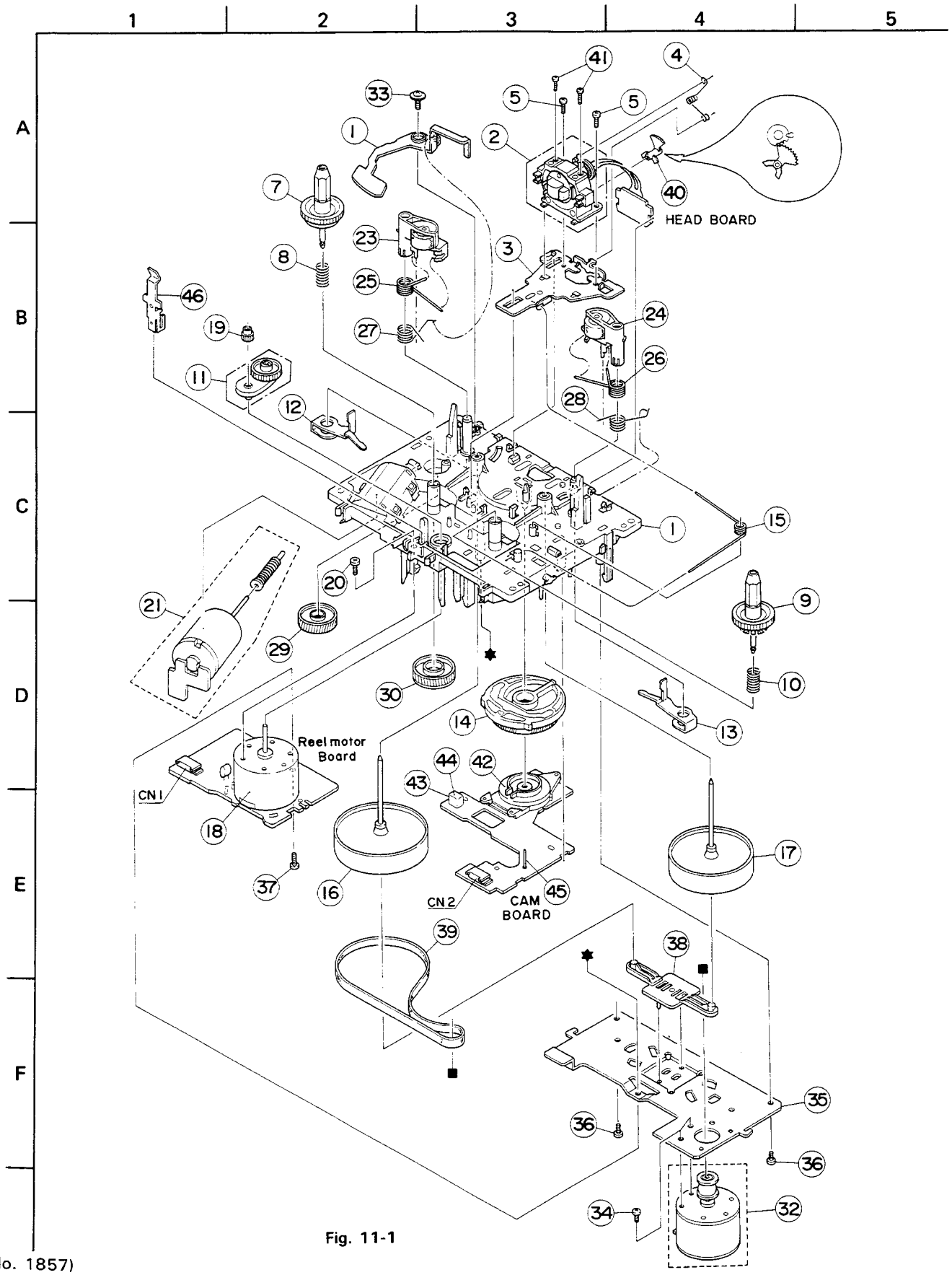


Fig. 11-1

• Cassette Mechanism Parts List

BLOCK NO. M4MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	VKS1112-#0I	CHASSIS B ASS'Y		1		
	2	VKS3551-#0B	HEAD M. ASS'Y -		1		
	3	VKL6942-00E	HEAD BASE ASSY		1		
	4	VKW4994-001	HEAD SPRING	HEAD GEAR	1		
	5	SDST2004Z	SCREW	MOUNT BASE	2		
	7	VKS5321-00D	T-UP REEL ASS'Y		1		
	8	VKW4928-003	B.T. SPRING		1		
	9	VKS3480-005	REEL DISK		1		
	10	VKW4928-003	B.T. SPRING		1		
	11	VKS5325-00F	FR ARM ASS'Y		1		
	12	VKL6939-002	PINCH LEVER (R)		1		
	13	VKL6940-002	PINCH LEVER (L)		1		
	14	VKS2209-005	CONTROL CAM		1		
	15	VKW4930-002	RETURN SPRING	HEAD BASE	1		
	16	VKF3184-00C	FLYWHEEL(R)ASY		1		
	17	VKF3188-00A	FLYWHEEL(L)ASY		1		
	18	MMN-6F4RA38	D.C.MOTOR	REEL	1		
	19	VKS5328-002	GEAR	REEL MOTOR	1		
	20	SDSP2605Z	SCREW		1		
	21	MXN13FB12F-SA1	DC MOTOR ASS'Y	ACTUATEOR	1		
	23	VKP4219-00C	PINCH R.(R) ASY		1		
	24	VKP4221-00C	PINCH R.(L) ASY		1		
	25	VKW4981-001	SPRING (R)	PINCH(R)	1		
	26	VKW4982-001	SPRING (L)	PINCH(L)	1		
	27	VKW4932-005	P.R. ARM SP	P. ARM(R)	1		
	28	VKW4933-005	TORSION SP.	P. ARM(L)	1		
	29	VKS5330-004	ACT. GEAR (5)		1		
	30	VKS5331-002	ACT. GEAR (6)		1		
	31	VKL6954-007	EJECT SAFETY(R)		1		
	32	MMI6H2LWK-SA4	MOTOR ASS'Y	FOR CAPSTAN	1		
	33	E65923-003	T.SCREW		1		
	34	SPSP2603Z	SCREW		2		
	35	VKM3416-004	FM BRACKET		1		
	36	SDSF2605Z	SCREW	FM BRACKET	2		
	37	SDSF2608Z	SCREW		1		
	38	VKS5327-003	THRUST PLATE		1		
	39	VKB3001-049	BELT		1		
	40	VKS3485-002	HEAD GEAR (1)		1		
	41	VKZ4514-001	SPECIAL SCREW		2		
	42	VKS3587-00A	CAM SW UNIT		1		
	43	DN6851A	I.C(DIGI-OTHER)		1		
	44	VKS3487-002	IC HOLDER		1		
	45	VKZ4611-001	EARTH CONTACT		1		
	46	VKY4628-002	SPRING		1		
	CN- 1	VMC0249-R08N	CONNECTOR	FOR MOTOR	1		
	CN- 2	VMC0249-R07N	CONNECTOR	FOR CAM/HALLIC	1		

■ CD Mechanism Block M5

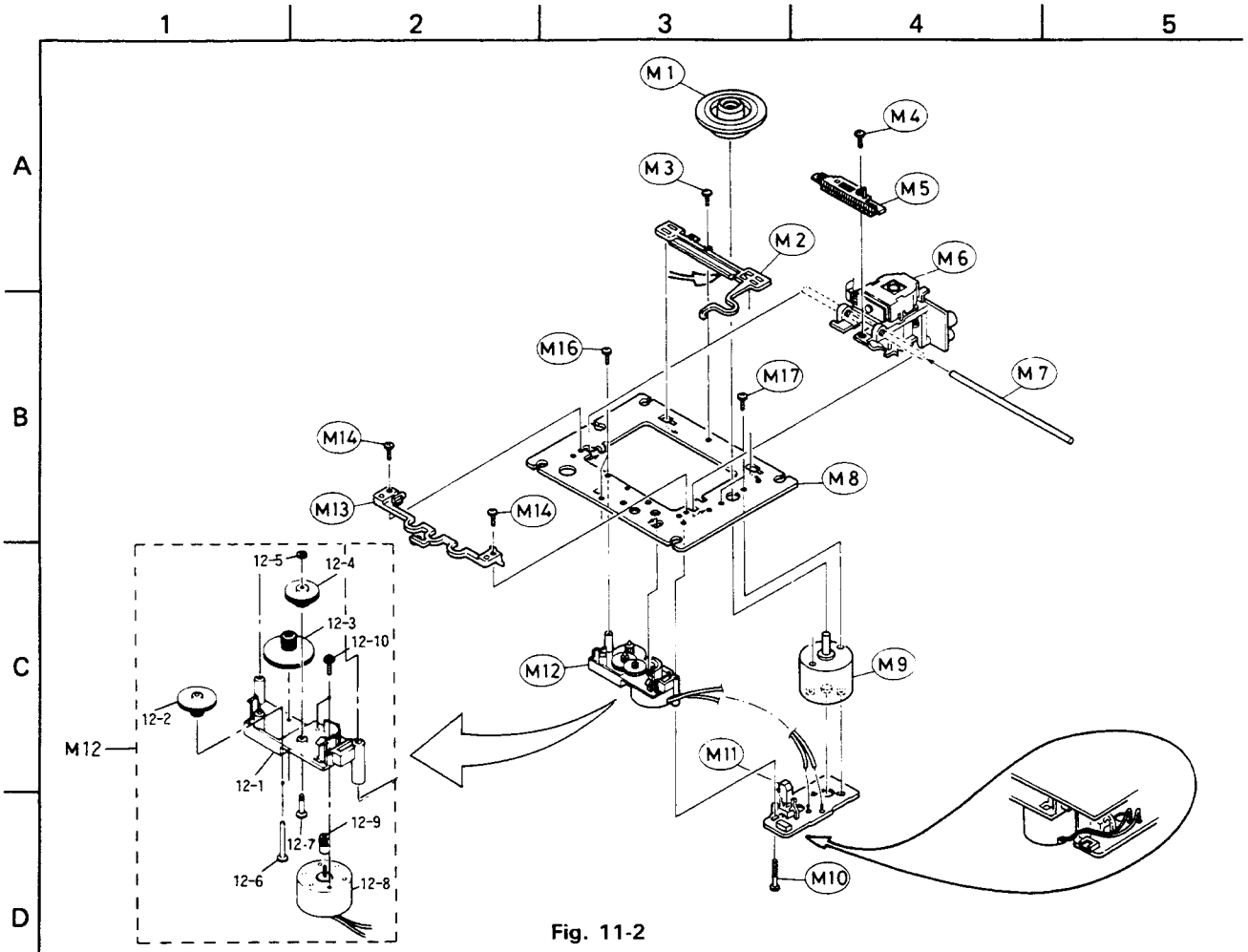


Fig. 11-2

• CD Mechansim Parts List

BLOCK NO. M5MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	M 1	E406064-002	CD TURN TABL		1		
	M 2	E306275-003	CD SUPPORT		1		
	M 3	SDST2005Z	SCREW		1		
	M 4	SPSH2050M	SCREW		1		
	M 5	E306282-001	CD RACK ASS'Y		1		
	M 6	OPTIMA-5S	OPTICAL PICK-UP		1		
	M 7	E74930-003	GUIDE SHAFT	FOR PICK-UP	1		
	M 8	E26487-003	CD MECHA.BASE		1		
	M 9	E74539-001B	DC MOTOR	FOR SPINDLE	1		
	M 10	E75832-001	SPECIAL SCREW	FOR LEAF SWITCH	1		
	M 11	ESB1100-005	LEAF SWITCH		1		
	M 12	SE10351-11	CD GEAR ASS'Y		1		
	M 13	E306277-001	JOINT HOLDER		1		
	M 14	SDST2004Z	SCREW		1		
	M 16	E72713-001	SCREW		1		
	M 17	SDSP2003N	SCREW		2		
	12- 1	E306276-001	GEAR BASE		1		
	12- 2	E75444-001	GEAR	CAM	1		
	12- 3	E75443-001	GEAR	DRIVE	1		
	12- 4	E75445-001	GEAR	CAM	1		
	12- 5	WDM163550	SLIT WASHER		1		
	12- 6	E75494-003	SHAFT PIN		2		
	12- 7	E75494-002	ROLLER SHAFT		1		
	12- 8	HKN-3A6RDNV	DC MOTOR		1		
	12- 9	E75493-001	PINION GEAR		1		
	12-10	LPSH1735Z	SCREW		2		

■ Tuner Board Board Parts List

BLOCK NO. 01□□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	BP 01	EQF0201-006	BANDPASS FILTER		G
	BP 01	VBP4W3B-005	BANDPASS FILTER		A
	BP 01	VBP4M3B-005	BP FILTER		B
	C 001	QCT30CH-200Y	CER.CAPACITOR-S	20PF 5% 50V	E,G
	C 001	QCSB1HJ-200Y	C CAPACITOR	20PF 5% 50V	A,B
	C 002	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 003	QCSB1HK-3R3Y	CER.CAPACITOR	3.3PF 10% 50V	E,G
	C 003	QCSB1HJ-130Y	C CAPACITOR	13PF 5% 50V	B
	C 004	QCSB1HK-4R7Y	CER.CAPACITOR	4.7PF 10% 50V	A
	C 004	QCSB1HM-1R5Y	CER.CAPACITOR-S	1.5PF 20% 50V	E,G
	C 004	QCT05UJ-100	C.CAPACITOR	10PF 5% 50V	B
	C 005	QCT30UJ-100Y	CER.CAPACITOR-S	10PF 55 50V	A,E,G
	C 005	QCT05UJ-180	C.CAPACITOR	18PF 5% 50V	B
	C 006	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C 007	QCY30UJ-200Y	C CAPACITOR	20PF 5% 50V	A
	C 007	QCT30CH-200Y	C CAPACITOR	20PF 5% 50V	B
	C 008	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C 009	QCT30UJ-2R2Y	CER.CAPACITOR-S	2.2PF 5% 50V	A
	C 009	QCT30UJ-8R2Y	CER.CAPACITOR-S	8.2PF 5% 50V	G
	C 009	QCT30UJ-100Y	C.CAPACITOR	10PF 5% 50V	B
	C 010	QCSB1HM-1R0Y	CER.CAPACITOR	1PF 20% 50V	E,G
	C 010	QCT30UJ-2R2Y	CER.CAPACITOR-S	2.2PF 5% 50V	A
	C 010	QCT30CH-2R2Y	C CAPACITOR	2.2PF 5% 50V	B
	C 011	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C 012	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	C 013	QCC11EM-223V	C CAPACITOR	.022MF 20% 25V	
	C 014	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	C 015	QCCB1HK-102Y	C CAPACITOR	1000PF 10% 50V	G
	C 016	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C 017	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 018	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C 019	QCT30UJ-8R2Y	CER.CAPACITOR-S	8.2PF 5% 50V	E,G
	C 019	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	B
	C 020	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C 021	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	
	C 022	QFP31HG-431ZM	PP CAPACITOR	430PF 2% 50V	
	C 023	QCT30UJ-120Y	C.CAPACITOR	12PF 5% 50V	
	C 024	QCS11HJ-560	C.CAPACITOR	56PF 5% 50V	
	C 025	QEK41HM-104	E CAPACITOR	.10MF 20% 50V	
	C 026	QCS11HJ-181	C.CAPACITOR	180PF 5% 50V	
	C 027	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 028	QCS11HJ-180	C CAPACITOR	18PF 5% 50V	
	C 029	QEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
	C 030	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C 031	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C 032	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C 033	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C 034	QCC31EM-333ZV	C CAPACITOR	.033MF 20% 25V	
	C 035	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	
	C 036	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 037	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C 038	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 039	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	
	C 040	QEK41HM-335	E CAPACITOR	3.3MF 20% 50V	
	C 041	QEK41CM-106	E CAPACITOR	10MF 20% 16V	

BLOCK NO. 01□□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 042	QCXB1CM-152Y	C CAPACITOR	1500PF 20% 16V	
	C 043	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C 044	QEK41HM-104	E CAPACITOR	.10MF 20% 50V	
	C 045	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C 046	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 047	QCC31EM-153ZV	C.CAPACITOR	.015MF 20% 25V	
	C 048	QCC31EM-153ZV	C.CAPACITOR	.015MF 20% 25V	
	C 049	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 050	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 053	QCS11HJ-150	C CAPACITOR	15PF 5% 50V	
	C 054	QCC11EM-223V	C CAPACITOR	.022MF 20% 25V	E,G
	C 055	QCSB1HK-2R2Y	CER.CAPACITOR-S	2.2PF 10% 50V	E,G
	C 058	QCBB1HK-151Y	CER.CAPACITOR-S	150PF 10% 50V	E
	C 059	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	B
	C 060	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 061	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C 062	QCSB1HJ-130Y	C CAPACITOR	13PF 5% 50V	
	C 063	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	
	C 064	QCS11HJ-270	C.CAPACITOR	27PF 5% 50V	
	C 065	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	C 066	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	C 067	QCS11HJ-151	C CAPACITOR	150PF 5% 50V	
	C 069	QCXB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
	C 070	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 071	QEK41HM-335	E CAPACITOR	3.3MF 20% 50V	
	CF 01	VCF2L3B-108Z	C FILTER		
	CF 02	VCF2L3B-108Z	C FILTER		
	CF 03	VCF1Z2Z-108Z	C FILTER		
	CF 04	CSB456F18	CERA LOCK		
	CN 02	EMV5103-002A	PLUG ASSY	TO LOOP ANT.	
	CN001	VMC0107-002	CONN.TERMINAL		
	D 001	KV1350NT	VARI CAP		
	D 002	KV1350NT	VARI CAP		
	D 003	KV1350NT	VARI CAP		
	D 004	KV1350NT	VARI CAP		
	D 005	KV1350NT	VARI-CAPA DIODE		E,G
	D 005	MA165	SI DIODE		A,B
	D 006	KV1350NT	VARI-CAPA DIODE		E,G
	D 006	MA165	SI DIODE		A,B
	D 007	MA165	SI DIODE		
	D 008	KV1550NTA	VARI.CAPACITOR		
	D 009	KV1550NTA	VARI.CAPACITOR		
	D 010	KV1550NTA	VARI.CAPACITOR		
	D 011	KV1550NTA	VARI.CAPACITOR		
	D 012	MA165	SI DIODE		
	D 013	MA165	SI DIODE		
	IC 01	TA7358P(N)	IC		
	IC 02	TA8132AN	IC		
	IC 03	TC9216P	IC		
	J 001	YKD31-0442	ANT TERMINAL		
	L 001	VQF1B20-006T	OSC COIL	FM OSC	E,G
	L 001	VQF1B20-015	OSC.COIL	FM OSC	A
	L 001	VQF1B20-017	OSC COIL	FM OSC	B
	L 002	VQF1B13-004	RF COIL	FM RF	A
	L 002	VQF1B12-004	RF COIL	FM RF	B

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	L 003	VQZ0030-010	RF COIL(MW)	MW RF	
	L 004	VQM7U02-404	OSC COIL(MW)	MW OSC	
	L 005	VQZ0030-008	RF COIL	LW RF	
	L 006	VQL7U02-502	OSC COIL(LW)	LW OSC	
	L 007	VQP025K-4R7Y	INDUCTOR		
	L 008	VQP025K-221Y	INDUCTOR		
	L 009	VQP025K-4R7Y	INDUCTOR		
	L 010	VQP025K-4R7Y	INDUCTOR		
	L 011	VQP025K-4R7Y	INDUCTOR		
	L 013	VQF1B12-010	RF COIL		E,G
	L 014	VQZ0048-007	INDUCTOR		G
	L 015	VQZ0048-009	INDUCTOR		G
	Q 001	2SC1923(O)	TRANSISTOR		
	Q 002	2SD1302(S,T)	TRANSISTOR		
	Q 003	2SC2839(E)	TRANSISTER		
	Q 004	2SA1309(RS)	TRANSISTOR		
	Q 005	2SD1302(S,T)	TRANSISTOR		
	Q 006	2SA1309(RS)	TRANSISTOR		
	Q 007	2SC2839(E)	TRANSISTER		
	Q 008	DTC114YS	TR.I M		
	Q 009	DTA114YS	TRANSISTOR		
	Q 010	DTA114YS	TRANSISTOR		
	Q 011	DTA114YS	TRANSISTOR		
	Q 012	2SC3311(R,S)	TRANSISTOR		
	Q 013	2SC3311(R,S)	TRANSISTOR		
	Q 015	DTC124ES	TRANSISTOR		
	R 001	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 002	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 003	QRD167J-4R7	CARBON RESISTOR	4.7 5% 1/6W	
	R 004	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 005	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	R 006	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 008	QRD161J-241	CARBON RESISTOR	240K 5% 1/6W	E,G
	R 008	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	A,B
	R 009	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 010	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 011	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 012	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 013	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 014	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 015	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 016	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 017	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 018	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 019	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 020	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 021	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 022	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 024	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 025	QRD161J-394	CARBON RESISTOR	390K 5% 1/6W	
	R 026	QRD161J-100	CARBON RESISTOR	10 5% 1/6W	
	R 027	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 029	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 030	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 031	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 032	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 033	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 034	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 035	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 036	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 037	QRD161J-560	CARBON RESISTOR	56 5% 1/6W	
	R 038	QRD161J-473	C RESISTOR	47K 5% 1/6W	E,G
	R 039	QRD161J-102	CARBON RESISTOR	1.0K 5% 50V	E,G
	R 040	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 041	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 042	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 043	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 044	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 045	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	
	R 047	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 048	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 049	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 051	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	
	R 052	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 053	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 054	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 055	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 056	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 057	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 058	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	T 001	VQT7F12-110	IFT	FM IF	
	T 002	VQT7A21-105	IFT		
	TC 01	QAT3722-100M	T CAPACITOR		A,E,G
	TC 02	QAT3722-200ZM	T CAPACITOR	MW RF	
	TC 03	QAT3722-300ZM	T CAPACITOR	LW RF	
	TC 04	QAT3722-100M	T CAPACITOR		E,G
	X 001	V472124-A0	CRYSTAL		

■ LCD/Micron Board Parts List

BLOCK NO. 02□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 701	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 702	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	C 703	VCE0056-479Z	SUPER CAP.		
	C 709	QCS11HJ-200	C CAPACITOR	20PF 5% 50V	
	C 710	QCS11HJ-160	C CAPACITOR	16PF 5% 50V	
	C 711	C1-PARTS808291	C CAPACITOR	30PF 5% 50V	
	C 712	C1-PARTS808291	C CAPACITOR	30PF 5% 50V	
	C 713	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C 714	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C 715	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 716	QETC1HM-104ZN	E CAPACITOR	.10MF 20% 50V	
	C 717	QETC1HM-225ZN	E CAPACITOR	2.2MF 20% 50V	
	C 719	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	C 720	QETC1AM-227ZN	E CAPACITOR	220MF 20% 10V	
	C 722	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V	
	C 723	QETC1HM-105ZN	E CAPACITOR	1.0MF 20% 50V	
	C 724	QCY41HK-332	C CAPACITOR	3300PF 10% 50V	
	C 725	QETC1CM-106ZN	E CAPACITOR	10MF 20% 16V	
	C 726	QETC1AM-476ZN	E CAPACITOR	47MF 20% 10V	
	C 727	QFV11HJ-124ZN	FILM CAPACITOR	.12MF 5% 50V	
	C 728	QFV11HJ-124ZN	FILM CAPACITOR	.12MF 5% 50V	
	C 729	QFV11HJ-124ZN	FILM CAPACITOR	.12MF 5% 50V	
	C 730	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 731	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 732	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 733	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 734	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 735	QCXB1CM-472Y	C.CAPACITOR	4700PF 20% 16V	
	C 740	QFV11HJ-124ZN	FILM CAPACITOR	.12MF 5% 50V	
	C 741	QFV11HJ-124ZN	FILM CAPACITOR	.12MF 5% 50V	
	C 742	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	CN701	VMC0075-004N	CONNECTOR	FOR VOL MOTOR&L	
	CN702	VMC0075-005N	CONNECTOR	FOR FRONT PWB	
	CN703	VMC0162-R13	CONNECTOR	FOR FUNC. PWB 1	
	CN704	VMC0162-R13	CONNECTOR	FOR FUNC. PWB 2	
	CN705	VMC0107-R05	SOCKET	FOR CD AMP PWB	
	CN706	VMC0075-006N	CONNECTOR	FOR SW PWB 1 2	
	CN707	VMC0163-010	CONNECTOR	FOR CD AMP PWB	
	CN708	VMC0075-002N	CONNECTOR		
	CN709	VMC0075-R02N	CONNECTOR		
	CN710	VMC0075-002N	CONNECTOR	FOR LAMP	
	D 703	MA165	SI DIODE		
	D 704	MA165	SI DIODE		
	D 706	LN282RPX	LED		
	D 707	MA4062(H)TA	Z DIODE		
	D 708	11E1	SI DIODE		
	D 709	MA165	SI DIODE		
	D 712	MA4051(H)	Z DIODE		
	D 713	MA165	SI DIODE		
	D 714	MA165	SI DIODE		
	IC702	MN1871610JCS	IC(CPU)	CONTROLLER	
	IC703	BA6208A	IC		
	IC704	TA8409S	IC		
	IC705	BA3830S	IC		
	IC706	PST529C	IC		

BLOCK NO. 02□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	IC707	UPD4051BC	IC		
	L 702	VQZ0048-009	INDUCTOR		
	L 703	VQP025K-4R7Y	INDUCTOR		
	L 704	VQP025K-221Y	INDUCTOR		
	L 705	VQP025K-221Y	INDUCTOR		
	L 711	VQP025K-4R7Y	INDUCTOR		
	L 712	VQP025K-4R7Y	INDUCTOR		
	L 713	VQP025K-4R7Y	INDUCTOR		
	LC701	VGL1112-001	LCD		
	PL701	VGZ0001-049	P.LAMP		
	PL702	VGZ0001-049	P.LAMP		
	Q 701	2SC3311A(RS)	TR		
	Q 702	2SC945L(P,Q)	TRANSISTOR		
	Q 703	2SC945L(P,Q)	TRANSISTOR		
	Q 706	2SC3311A(RS)	TR		
	Q 707	2SA952(L,K)	TRANSISTOR	LAMP +B SW	
	Q 708	UN4211	TRANSISTOR		
	Q 709	2SB562(C)	TRANSISTOR		
	Q 710	2SC3311A(RS)	TR	POUT BUFFER	
	Q 711	2SD1302(S,T)	TRANSISTOR		
	Q 713	2SC3330	TRANSISTOR		
	Q 714	2SC3330	TRANSISTOR		
	Q 715	2SC3330	TRANSISTOR		
	Q 716	2SC3330	TRANSISTOR		
	Q 717	2SC3330	TRANSISTOR		
	Q 720	2SC3311A(RS)	TR		
	R 721	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 722	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 723	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 724	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 725	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 726	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 727	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 728	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 729	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 730	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 731	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 732	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 735	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 736	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 737	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 738	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 739	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 740	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 741	QRD161J-102	CARBON RESISTOR	BUS3	
	R 742	QRD161J-102	CARBON RESISTOR	BUS2	
	R 743	QRD161J-102	CARBON RESISTOR	BUS1	
	R 744	QRD161J-102	CARBON RESISTOR	BUS0	
	R 745	QRD161J-102	CARBON RESISTOR	DACO	
	R 746	QRD161J-102	CARBON RESISTOR	BUCK	
	R 747	QRD161J-102	CARBON RESISTOR	XRST	
	R 748	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 749	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 750	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 751	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	

BLOCK NO. 02□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 752	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 753	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 754	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 755	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 756	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 757	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 758	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 759	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 760	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 761	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 762	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 763	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 764	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 765	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 766	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 767	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 768	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 769	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 770	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 771	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 772	QRD161J-274	CARBON RESISTOR	270K 5% 1/6W	
	R 773	QRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
	R 774	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 775	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 776	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 777	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R 778	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R 779	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R 780	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R 781	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 782	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R 784	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 785	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 786	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 787	QRD167J-4R7	CARBON RESISTOR	4.7 5% 1/6W	
	R 788	QRD121J-2R2	CARBON RESISTOR	2.2 5% 1/2W	
	R 790	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 791	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 795	QRD167J-121	CARBON RESISTOR	120 5% 1/6W	
	R 797	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 798	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 800	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 801	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 802	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 803	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 804	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 805	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 807	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 808	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 810	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 811	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 812	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	S 717	QSP2K21-V01	PUSH SWITCH	OPEN	
	S 718	QSP2K21-V01	PUSH SWITCH	CLOSE	
	S 722	QSS7A23-V06	SLIDE SWITCH	BEAT CUT	

BLOCK NO. 02□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	X 701	VCX5000-001	CRYSTAL	32.768KHZ	
	X 702	CSA8.00MT	CERA LOCK	8.00MHZ	

■ CD Amp. Board Parts List

BLOCK NO. 03□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 502	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 505	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 506	QCC11EM-223V	C CAPACITOR	.022MF 20% 25V	
	C 507	QCS11HJ-680	C CAPACITOR	68PF 5% 50V	
	C 508	QETC1AM-476ZN	E CAPACITOR	47MF 20% 10V	
	C 509	QCS11HJ-680	C CAPACITOR	68PF 5% 50V	
	C 510	QCSB1HK-2R2Y	C CAPACITOR	2.2PF 10% 50V	
	C 511	QCC11EM-223V	C CAPACITOR	.022MF 20% 25V	
	C 512	QCS11HJ-220	C CAPACITOR	22PF 5% 50V	
	C 513	QCBB1HK-820Y	C CAPACITOR	82PF 10% 50V	
	C 514	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
	C 515	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	
	C 516	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C 517	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	C 518	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
	C 519	QCS11HJ-330	C CAPACITOR	33PF 5% 50V	
	C 520	QCXB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
	C 521	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 522	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 523	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 525	QER41EM-475VM	E CAPACITOR	4.7MF 20% 25V	
	C 526	QER61AM-476ZM	E CAPACITOR	47MF 20% 10V	
	C 527	QEPJ1HM-105ZM	NP CAPACITOR	1.0MF 20% 50V	
	C 528	QFV41HJ-223	TF CAPACITOR	.022MF 5% 50V	
	C 529	QFV11HJ-273AZM	TF CAPACITOR	.027MF 5% 50V	
	C 531	QCY31HK-822Z	C CAPACITOR	8200PF 10% 50V	
	C 535	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
	C 544	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C 545	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C 548	QETC1AM-476ZN	E CAPACITOR	47MF 20% 10V	
	C 549	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	
	C 550	QETC1AM-476ZN	E CAPACITOR	47MF 20% 10V	
	C 552	QCC11EM-104V	C CAPACITOR	.10MF 20% 25V	
	C 563	QFV41HJ-123	FILM CAPACITOR	.012MF 5% 50V	
	C 587	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
	C 595	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 604	QETC1AM-226ZN	E CAPACITOR	22MF 20% 10V	
	C 605	QETC1AM-226ZN	E CAPACITOR	22MF 20% 10V	
	C 606	QCXB1CM-182Y	C.CAPACITOR	1800PF 20% 16V	
	C 607	QCXB1CM-182Y	C.CAPACITOR	1800PF 20% 16V	
	C 608	QCXB1CM-152Y	C CAPACITOR	1500PF 20% 16V	
	C 609	QCXB1CM-152Y	C CAPACITOR	1500PF 20% 16V	
	C 610	QCBB1HK-121Y	C CAPACITOR	120PF 10% 50V	
	C 611	QCBB1HK-121Y	C CAPACITOR	120PF 10% 50V	
	C 612	QETC1AM-226ZN	E CAPACITOR	22MF 20% 10V	
	C 613	QETC1AM-226ZN	E CAPACITOR	22MF 20% 10V	
	C 614	QCC11EM-123V	C CAPACITOR	.012MF 20% 25V	
	C 615	QCC11EM-123V	C CAPACITOR	.012MF 20% 25V	
	C 616	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	C 617	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	C 618	QCC11EM-223V	C CAPACITOR	.022MF 20% 25V	
	C 620	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C 621	QETC1AM-477ZN	E CAPACITOR	470MF 20% 10V	
	C 623	QETC1AM-477ZN	E CAPACITOR	470MF 20% 10V	
	C 641	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	

BLOCK NO. 03□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 650	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 651	QCS11HJ-151	C CAPACITOR	150PF 5% 50V	
	CN504	VMC0163-010	CONNECTOR		
	D 610	HZS5.6EB3	Z DIODE		
	FB 11	VQZ0048-009	INDUCTOR		
	FB 12	VQZ0048-009	INDUCTOR		
	FB 13	VQZ0048-009	INDUCTOR		
	FB 14	VQZ0048-003	INDUCTOR		
	IC501	MC13501M	IC	RF IC	
	IC502	NJM3403D-C	IC	SERVO PRE	
	IC503	BA6294	IC	ACTUATER DRIVER	
	IC504	BA6294	IC	MOTER DRAIVER	
	IC602	TC9201BF	IC	SERVO PROCESSER	
	IC603	TC9200BF	IC	DETA PROCESSER	
	IC605	UPD6376CX	IC	DAC	
	IC606	SM5818AP	IC	DIGITAL FILTER	
	IC607	XRA15218N	IC	LPF	
	L 710	VQP0010-100	INDUCTOR		
	Q 503	2SC2785(HFE)	TRANSISTOR	EMPHASIS SW	
	Q 504	2SC2785(HFE)	TRANSISTOR	EMPHASIS SW	
	Q 614	2SD1302(S,T)	TRANSISTOR	REGURETER	
	R 501	QRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
	R 502	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
	R 503	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 504	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 505	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 506	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 507	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 508	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 509	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 510	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 511	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 512	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 513	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 514	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 515	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 516	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 517	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 519	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	R 520	QRV141F-3302AY	CMF RESISTOR	33 1% 1/4W	
	R 521	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	R 522	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 523	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 524	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 525	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 526	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 527	QRD161J-564	CARBON RESISTOR	560K 5% 1/6W	
	R 528	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 529	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 530	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 531	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 532	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 533	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 534	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 535	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 536	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 537	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 538	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 539	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 540	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 541	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 542	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 544	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 545	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 546	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 547	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 548	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
	R 549	QRD161J-181	CARBON RESISTOR	180 5% 1/6W	
	R 550	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 559	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 560	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 566	QRD161J-391	CARBON RESISTOR	390 5% 1/6W	
	R 570	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 573	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 590	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 640	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 641	QRD161J-470	CARBON RESISTOR	47 5% 1/6W	
	R 644	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 645	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	R 647	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 649	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 660	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 661	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 662	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 663	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 664	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 665	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 666	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 667	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 668	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 669	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 672	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 673	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 674	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 675	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 676	QRV141F-8202AY	CMF RESISTOR	82 1% 1/4W	
	R 677	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 678	QRV141F-3302AY	CMF RESISTOR	33 1% 1/4W	
	R 681	QRV141F-8202AY	CMF RESISTOR	82 1% 1/4W	
	R 682	QRV141F-3302AY	CMF RESISTOR	33 1% 1/4W	
	R 684	QRV141F-8202AY	CMF RESISTOR	82 1% 1/4W	
	R 685	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 686	QRV141F-3302AY	CMF RESISTOR	33 1% 1/4W	
	R 687	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 688	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 691	QRV141F-8202AY	CMF RESISTOR	82 1% 1/4W	
	R 692	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	R 695	QRV141F-8202AY	CMF RESISTOR	82 1% 1/4W	
	R 696	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 697	QRV141F-3302AY	CMF RESISTOR	33 1% 1/4W	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 698	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 699	PTH61G30BD2R2N	POSISTER		
	VR501	QVPA601-503A	V RESISTOR	E/F BALANCE	
	X 601	VCX5016-934V	CRYSTAL		

■ Power Amp/Supply Board Parts List

BLOCK NO. 04□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 151	QETC1EM-476ZN	E CAPACITOR	47MF 20% 25V	
	C 152	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 153	QCC11EM-104V	C CAPACITOR	.10MF 20% 25V	
	C 154	QET41CR-228	E CAPACITOR	2200MF +30:-10%	
	C 155	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
	C 251	QETC1EM-476ZN	E CAPACITOR	47MF 20% 25V	
	C 252	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 253	QCC11EM-104V	C CAPACITOR	.10MF 20% 25V	
	C 254	QET41CR-228	E CAPACITOR	2200MF +30:-10%	
	C 255	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
	C 351	QFV71HJ-393ZM	FILM CAPACITOR	.039MF 5% 50V	
	C 352	QFV71HJ-393ZM	FILM CAPACITOR	.039MF 5% 50V	
	C 353	QETC1EM-107ZN	E.CAPACITOR	100MF 20% 25V	
	C 354	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C 355	QETB1VM-338N	E.CAPACITOR	3300MF 20% 35V	
	C 356	QCC11EM-683V	C CAPACITOR	.068MF 20% 25V	
	C 357	QETB1VM-227N	E CAPACITOR	220MF 20% 35V	
	C 901	QETB1VM-227N	E CAPACITOR	220MF 20% 35V	
	C 902	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
⚠	C 951	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
⚠	C 952	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
⚠	C 953	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
⚠	C 954	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
	CN351	VMC0156-S12	CONNECTOR		
	CN352	VMC0156-P12	CONNECTOR		
	CN355	VMC0040-005	CONECTOR		
	CN951	VMC0156-P08	CONNECTOR		
	CN952	VMC0156-S08	CONNECTOR		
	CN953	VMC0156-S08	CONNECTOR		
	CN954	VMC0156-P08	CONNECTOR		
	D 351	MA700	ZENER DIODE		
	D 352	MA700	ZENER DIODE		
	D 902	11E1	SI DIODE		
⚠	D 951	S4VB10-4002	SI DIODE		
⚠	F 951	QMF51A2-R63	FUSE	630MA	A,E,G,GI,EN
⚠	F 951	QMF51E2-R63BS	FUSE	630MA	B
⚠	F 953	QMF51A2-1R6	FUSE	1.6A	A,E,G,GI,EN
⚠	F 953	QMF51E2-1R6BS	FUSE	1.6A	B
⚠	F 954	QMF51A2-R63	FUSE	630MA	A,E,G,GI,EN
⚠	F 954	QMF51E2-R63BS	FUSE	630MA	B
	FUSE	VMZ0087-001Z	FUSE HOLDER	F951/F953/F954	
	IC351	TA8216H(JVC)	IC		
	J 351	EMB90YV-401A	SPK.TERMINAL		
	J 352	EMV7127-017	CONNECTOR		
	J 353	QMS301C-V01	JACK		
	Q 151	2SD1302(S,T)	TRANSISTOR		
	Q 152	2SD1302(S,T)	TRANSISTOR		
	Q 251	2SD1302(S,T)	TRANSISTOR		
	Q 252	2SD1302(S,T)	TRANSISTOR		
	Q 901	2SC2785(HFE)	TRANSISTOR		
	Q 902	2SA952(L,K)	TRANSISTOR		
	R 150	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 151	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 152	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 153	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	

BLOCK NO. 04□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 154	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 155	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R 156	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R 157	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R 250	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 251	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 252	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 253	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	
	R 254	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 255	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R 256	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R 257	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R 353	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R 901	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 902	QRD121J-102	CARBON RESISTOR	1.0K 5% 1/2W	
	R 903	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 904	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 905	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 906	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 907	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RY951	VSK1D24-111	RELAY		
⚠	T 951	VTP66J6-24A	POWER TRANSF		E,GI,G,EN
⚠	T 951	VTP66T6-24A	POWER TRANS		A
⚠	T 951	VTP66T6-24ABS	POWER TRANSF.		B

■ Cassette Amp Board Parts List

BLOCK NO. 05□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 101	QEK41HM-225	E.CAPA.	2.2MF 20% 50V	
	C 102	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 103	QFV71HJ-103	TF CAPACITOR	.010MF 5% 50V	
	C 104	QEK60JM-107ZM	E CAPACITOR	100MF 20% 6.3V	
	C 105	QER41HM-105VM	E CAPACITOR	1.0MF 20% 50V	
	C 106	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C 107	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C 108	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 110	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 111	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
	C 112	QEK41HM-225	E.CAPA.	2.2MF 20% 50V	
	C 113	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 114	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C 115	QCC11EM-473V	C CAPACITOR	ALC LPF	
	C 116	QER41HM-105VM	E CAPACITOR	1.0MF 20% 50V	
	C 117	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 118	QFV41HJ-104	TF CAPACITOR	.10MF 5% 50V	
	C 119	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 120	QFV11HJ-153AZM	TF CAPACITOR	.015MF 5% 50V	
	C 121	QFV41HJ-333	TF CAPACITOR	.033MF 5% 50V	
	C 122	QFV11HJ-153AZM	TF CAPACITOR	.015MF 5% 50V	
	C 123	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 124	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 125	QCS32HJ-331ZV	C CAPACITOR	330PF 5% 500V	
	C 126	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 127	QCXB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
	C 201	QEK41HM-225	E.CAPA.	2.2MF 20% 50V	
	C 202	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 203	QFV71HJ-103	TF CAPACITOR	.010MF 5% 50V	
	C 204	QEK60JM-107ZM	E CAPACITOR	100MF 20% 6.3V	
	C 205	QER41HM-105VM	E CAPACITOR	1.0MF 20% 50V	
	C 206	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C 207	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C 208	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 210	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 211	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
	C 212	QEK41HM-225	E.CAPA.	2.2MF 20% 50V	
	C 213	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 214	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C 215	QCC11EM-473V	C CAPACITOR	ALC LPF	
	C 216	QER41HM-105VM	E CAPACITOR	1.0MF 20% 50V	
	C 217	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 218	QFV41HJ-104	TF CAPACITOR	.10MF 5% 50V	
	C 219	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 220	QFV11HJ-153AZM	TF CAPACITOR	.015MF 5% 50V	
	C 221	QFV41HJ-333	TF CAPACITOR	.033MF 5% 50V	
	C 222	QFV11HJ-153AZM	TF CAPACITOR	.015MF 5% 50V	
	C 223	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 224	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 225	QCS32HJ-331ZV	C CAPACITOR	330PF 5% 500V	
	C 226	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 227	QCXB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
	C 301	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 302	QFV71HJ-103	TF CAPACITOR	.010MF 5% 50V	
	C 303	QFV11HJ-153AZM	TF CAPACITOR	.015MF 5% 50V	

BLOCK NO. 05□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 304	QCS11HJ-330	C CAPACITOR	33PF 5% 50V	
	C 305	QCXB1CM-182Y	C.CAPACITOR	1800PF 20% 16V	
	C 306	QCBB1HK-681Y	C CAPACITOR	680PF 10% 50V	
	C 307	QEK61AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 308	QER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 309	QER41CM-106M	E CAPACITOR	10MF 20% 16V	
	C 310	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 311	QEK61AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 312	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 313	QEK61AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 314	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 315	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 316	QFLA1HJ-682ZM	M CAPACITOR	6800PF 5% 50V	
	C 317	QFLA1HJ-682ZM	M CAPACITOR	6800PF 5% 50V	
	C 318	QFLA1HJ-562ZM	M CAPACITOR	5600PF 5% 50V	
	C 319	QFLA1HJ-562ZM	M CAPACITOR	5600PF 5% 50V	
	C 320	QFG32AJ-223ZN	T.F.CAPACITOR	.022MF 5% 100V	
	C 321	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
	C 322	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 323	QEK61AM-336ZN	E CAPACITOR	33MF 20% 10V	
	C 324	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
	C 501	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
	C 502	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 503	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
	C 504	QEK60JM-107ZM	E CAPACITOR	100MF 20% 6.3V	
	C 505	QCXB1CM-272Y	C.CAPACITOR	2700PF 20% 16V	
	C 506	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
	C 508	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 509	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
	C 510	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 514	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C 515	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
	C 601	VCE0061-108	E CAPACITOR		
	C 602	QCF11HP-223	C CAPACITOR	.022MF +100:-0%	
	C 603	QCF11HP-223	C CAPACITOR	.022MF +100:-0%	
	C 604	QCF11HP-223	C CAPACITOR	.022MF +100:-0%	
	C 605	QCF11HP-223	C CAPACITOR	.022MF +100:-0%	
	C 606	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
	C 607	QFN41HJ-222	M CAPACITOR	2200PF 5% 50V	
	C 801	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
	C 802	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 803	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
	C 804	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
	C 805	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
	C 806	QEK61AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 807	QEK60JM-107ZM	E CAPACITOR	100MF 20% 6.3V	
	CG501	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	CN301	VMC0075-R09N	CONNECTOR		
	CN302	VMC0075-R05N	CONNECTOR		
	CN303	VMC0156-S12	CONNECTOR		
	CN304	VMC0156-S03	CONNECTOR		
	CN305	QMV5012-003	CONNECTOR		
	CN501	VMC0107-R06	4P PLUG ASSY		
	CN504	VMC0156-S10	CONNECTOR		
	CN505	VMC0156-S12	CONNECTOR		

BLOCK NO. 05□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CN601	VMC0156-P03	CONNECTOR		
	CN602	VMC0156-P12	CONNECTOR		
	CN603	VMC0156-P12	CONNECTOR		
	CN604	VMC0156-P10	CONNECTOR		
	CN605	TYCLL-008	CONNECTOR		
	CN606	TYCHL-008	CONNECTOR		
	CN607	VMC0075-R02N	CONNECTOR		
	CN609	VMC0041-009	CONNECTOR		
	D 101	MA165	SI DIODE		
	D 102	MA165	SI DIODE		
	D 201	MA165	SI DIODE		
	D 202	MA165	SI DIODE		
	D 301	MA165	SI DIODE		
	D 601	11E1	SI DIODE		
	D 602	11E1	SI DIODE		
	D 603	11E1	SI DIODE		
	D 604	11E1	SI DIODE		
	D 605	LN282RPX	LED	POWER STBY.	
	D 609	MA4082(L)	Z DIODE	STBY DRIVE	
	D 801	HSS104TJ	SI DIODE		
	D 802	MA4091(M)	ZENER DIODE		
	D 803	MA4051(M)	Z DIODE		
	D 804	HSS104TJ	SI DIODE		
	D 805	HSS104TJ	SI DIODE		
	D 806	MA700	ZENER DIODE	5V OFF	
	D 808	HSS104TJ	SI DIODE		
	D 809	HSS104TJ	SI DIODE		
	IC301	UPC1228HA	IC		
	IC302	LA3220	IC		
	IC303	UPC1330HA	IC		
	IC304	HA12134A	IC		
	IC501	TA8409S	IC		
	IC502	TA8409S	IC		
	IC503	LZ93D58	IC		
	L 101	VQP0001-183	INDUCTOR		
	L 102	VQP0001-562S	INDUCTOR		
	L 151	VQP025K-470Y	INDUCTOR		G,GI
	L 201	VQP0001-183	INDUCTOR		
	L 202	VQP0001-562S	INDUCTOR		
	L 251	VQP025K-470Y	INDUCTOR		G,GI
	L 301	VQH1008-017	OSC COIL(BIAS)		
	L 302	VQP0028-100Z	INDUCTOR		
	L 351	VQP025K-470Y	INDUCTOR		G,GI
	L 501	VQP0028-100Z	INDUCTOR		
	Q 101	UN4210	TRANSISTOR		
	Q 104	UN4210	TRANSISTOR		
	Q 105	UN4210	TRANSISTOR		
	Q 201	UN4210	TRANSISTOR		
	Q 204	UN4210	TRANSISTOR		
	Q 205	UN4210	TRANSISTOR		
	Q 301	2SC2785(HFE)	TRANSISTOR		
	Q 302	2SC2785(HFE)	TRANSISTOR		
	Q 303	UN4210	TRANSISTOR		
	Q 305	2SD1302(S,T)	TRANSISTOR		
	Q 306	2SD1302(S,T)	TRANSISTOR		

BLOCK NO. 05□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q 501	2SA952(L,K)	TRANSISTOR		
	Q 502	UN4213	TRANSISTOR		
	Q 503	2SD1302(S,T)	TRANSISTOR		
	Q 504	2SD1302(S,T)	TRANSISTOR		
	Q 505	2SD1302(S,T)	TRANSISTOR		
	Q 601	UN411F	TRANSISTOR		
	Q 602	UN4213	TRANSISTOR		
	Q 603	2SC945(P,Q)	TRANSISTOR		
	Q 604	2SC945(P,Q)	TRANSISTOR		
	Q 605	2SA992(E,F)	TRANSISTOR		
	Q 606	UN4213	TRANSISTOR	STBY DRIVE	
	Q 607	2SC2785(HFE)	TRANSISTOR	STBY DRIVE	
	Q 801	2SA1359(OY)	TRANSISTOR		
	Q 802	2SC2785(HFE)	TRANSISTOR		
	Q 803	UN4211	TRANSISTOR		
	Q 804	2SC2785(HFE)	TRANSISTOR		
	Q 805	2SA952(L,K)	TRANSISTOR		
	Q 806	2SC2785(HFE)	TRANSISTOR		
	Q 807	UN4213	TRANSISTOR		
	R 101	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	R 102	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R 103	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 104	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 105	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 106	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 107	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 108	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 110	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 111	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 112	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 113	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 114	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 115	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 116	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 117	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 118	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 119	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 121	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 122	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 124	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 158	QRD167J-121	CARBON RESISTOR	120 5% 1/6W	
	R 201	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	R 202	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R 203	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 204	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 205	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 206	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 207	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 208	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 210	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 211	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 212	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 213	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 214	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 215	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 216	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 217	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 218	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 219	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 221	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 222	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 224	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 258	QRD167J-121	CARBON RESISTOR	120 5% 1/6W	
	R 301	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 302	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 303	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 304	QRD161J-225	CARBON RESISTOR	2.2M 5% 1/6W	
	R 305	QRD167J-121	CARBON RESISTOR	120 5% 1/6W	
	R 306	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 307	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 308	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 309	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 311	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R 312	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R 313	QRZ0077-150X	F.RES.I.M	15 1/0W	
	R 314	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 315	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 316	QRD161J-3R3	CARBON RESISTOR	3.3 5% 1/6W	
	R 317	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 318	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 319	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 320	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 321	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 501	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 502	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 503	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 504	QRD161J-684	CARBON RESISTOR	680K 5% 1/6W	
	R 505	QRD161J-102	CARBON RESISTOR	MUTE DRIVE	
	R 507	QRD143J-151S	CARBON RESISTOR	150 5% 1/4W	
	R 508	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 509	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 510	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 511	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 512	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 513	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 514	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 515	QRD161J-223	CARBON RESISTOR	C MO.DRIVE	
	R 516	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 517	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 518	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 519	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 520	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 521	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 522	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 523	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 524	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 525	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 526	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 605	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 606	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 607	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 608	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 609	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 610	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 611	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 612	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 613	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 614	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	A
	R 621	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 622	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 623	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 624	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 625	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 626	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 627	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 628	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 629	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 630	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 631	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	
	R 632	QRD161J-103	CARBON RESISTOR	STBY DRIVE	
	R 633	QRD161J-223	CARBON RESISTOR	STBY DRIVE	
	R 634	QRD161J-101	CARBON RESISTOR	STBY DRIVE	
	R 635	QRD161J-561	CARBON RESISTOR	STBY DRIVE	
	R 801	QRD161J-391	CARBON RESISTOR	390 5% 1/6W	
	R 802	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 803	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 804	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 805	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 806	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 807	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 808	QRD161J-102	CARBON RESISTOR	5V OFF	
	R 809	QRZ0077-4R7X	FUSE RESISTOR	4.7 1/0W	
	R 810	QRD167J-121	CARBON RESISTOR	120 5% 1/6W	
	R 811	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 812	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 813	QRD161J-564	CARBON RESISTOR	560K 5% 1/6W	
	RG501	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	RG502	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
	S 601	QSQ4H11-V02Z	TACT SW	POWER	
	S 602	QSQ4H11-V02Z	TACT SW	REC/PAUSE	
	S 603	QSQ4H11-V02Z	TACT SW	CD SYNCHRO	
	S 604	QSQ4H11-V02Z	TACT SW	DOLBY NR	
	S 605	QSQ4H11-V02Z	TACT SW	REV.MODE	
	S 606	QSQ4H11-V02Z	TACT SW	REW	
	S 607	QSQ4H11-V02Z	TACT SW	REV	
	S 608	QSQ4H11-V02Z	TACT SW	STOP	
	S 609	QSQ4H11-V02Z	TACT SW	FWD	
	S 610	QSQ4H11-V02Z	TACT SW	FF	
	S 751	VSH1140-005	LEAF SWITCH		
	S 752	VSH1140-005	LEAF SWITCH		
	S 753	VSH1140-005	LEAF SWITCH		
	S 754	VSH1140-005	LEAF SWITCH		
	S 755	VSH1140-005	LEAF SWITCH		
	VR101	QVPA603-502AZM	SEMI.V.RESISTOR		
	VR102	QVPA603-502AZM	SEMI.V.RESISTOR		

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	VR103	QVPA603-104M	SEMI.V.RESISTOR		
	VR201	QVPA603-502AZM	SEMI.V.RESISTOR		
	VR202	QVPA603-502AZM	SEMI.V.RESISTOR		
	VR203	QVPA603-104M	SEMI.V.RESISTOR		
	VR501	QVPA603-103M	SEMI.V.RESISITO		

■ Function Board Parts List

BLOCK NO. 06

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 100	QCS11HJ-330	C CAPACITOR	33PF 5% 50V	
	C 101	QEK41HM-225	E.CAPA.	2.2MF 20% 50V	
	C 102	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 105	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 106	QCXB1CM-562Y	C CAPACITOR	5600PF 20% 16V	
	C 107	QCS11HJ-330	C CAPACITOR	33PF 5% 50V	
	C 108	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
	C 109	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
	C 110	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 111	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 112	QCS11HJ-330	C CAPACITOR	33PF 5% 50V	
	C 113	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 114	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 115	QFV11HJ-393ZM	TF CAPACITOR	.039MF 5% 50V	
	C 200	QCS11HJ-330	C CAPACITOR	33PF 5% 50V	
	C 201	QEK41HM-225	E.CAPA.	2.2MF 20% 50V	
	C 202	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 205	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 206	QCXB1CM-562Y	C CAPACITOR	5600PF 20% 16V	
	C 207	QCS11HJ-330	C CAPACITOR	33PF 5% 50V	
	C 208	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
	C 209	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
	C 210	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 211	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 212	QCS11HJ-330	C CAPACITOR	33PF 5% 50V	
	C 213	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 214	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 215	QFV11HJ-393ZM	TF CAPACITOR	.039MF 5% 50V	
	C 301	QEK41CM-336	E CAPACITOR	33MF 20% 16V	
	C 302	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 303	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 304	QEK41CM-336	E CAPACITOR	33MF 20% 16V	
	C 305	QCC11EM-104V	C CAPACITOR	.10MF 20% 25V	
	C 313	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 314	QEK41CM-336	E CAPACITOR	33MF 20% 16V	
	C 315	QEK41EM-335	E CAPACITOR	3.3MF 20% 25V	
	C 316	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 317	QCC11EM-103V	C CAPACITOR	.010MF 20% 25V	
	C 318	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 319	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 320	QEK41CM-336	E CAPACITOR	33MF 20% 16V	
	C 901	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
	C 902	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
	C 903	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
	C 904	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
	C 905	QETB1EM-228N	E CAPACITOR	1000U 25V	
	C 906	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
	C 907	QFV81HJ-683	TF CAPACITOR	.068MF 5% 50V	
	C 908	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 909	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
	C 910	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 911	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C 912	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
	C 913	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C 914	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	

BLOCK NO. 06

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 915	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 916	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	CN301	VMC0075-010N	CONNECTOR	TO TUNER	
	CN302	VMC0162-013	CONNECTOR	TO CPU 1	
	CN303	VMC0162-013	CONNECTOR	TO CPU 2	
	CN306	VMC0075-003N	CONNECTOR		
	CN314	VMC0075-005N	CONNECTOR		
	D 301	MA165	SI DIODE		
	D 302	MA165	SI DIODE		
	D 303	MA165	SI DIODE		
	D 304	MA165	SI DIODE		
	D 305	MA165	SI DIODE		
	D 306	MA165	SI DIODE		
⚠	D 901	S4VB10-4002	SI DIODE	2A 100V	
	D 902	MA165	SI DIODE		
	D 903	MA4056	ZENER DIODE		
	D 904	MA165	SI DIODE		
	D 905	MA165	SI DIODE		
	D 906	MA165	SI DIODE		
	D 907	MA4068(M)	Z DIODE		
	D 908	MA4062(H)TA	Z DIODE		
	D 909	MA165	SI DIODE		
	D 910	MA165	SI DIODE		
	D 911	MA165	SI DIODE		
	IC301	VC4580L	IC		
	IC303	XRA15218N	IC		
	IC304	VC4580L	IC		
	IC305	VC4580LD	IC		
⚠	IC306	PQ30RV1	IC	REGURATOR	
	IC307	TC9170AP	IC	E.VOL(BASS.)	
	IC308	TC9170AP	IC	E.VOL(TRE.)	
	J 301	VMJ3009-001	JACK ASSY		
	Q 107	2SC2785(HFE)	TRANSISTOR		
	Q 108	2SK301(P,Q)	FET		
	Q 109	2SD1302(S,T)	TRANSISTOR		
	Q 110	2SK301(P,Q)	FET		
	Q 207	2SC2785(HFE)	TRANSISTOR		
	Q 208	2SK301(P,Q)	FET		
	Q 209	2SD1302(S,T)	TRANSISTOR		
	Q 210	2SK301(P,Q)	FET		
	Q 301	UN411E	TRANSISTOR		
	Q 302	UN411E	TRANSISTOR		
	Q 303	UN411E	TRANSISTOR		
	Q 304	UN4210	TRANSISTOR		
	Q 308	UN4111	TRANSISTOR		
	Q 901	2SB562(C)	TRANSISTOR		
	Q 902	2SB562(C)	TRANSISTOR		
	Q 903	2SB562(C)	TRANSISTOR		
	Q 904	2SC2785(HFE)	TRANSISTOR		
	Q 905	2SC2785(HFE)	TRANSISTOR		
	Q 906	UN411E	TRANSISTOR		
	Q 907	UN4213	TRANSISTOR		
	Q 908	UN4210	TRANSISTOR		
	Q 909	2SC3311A(RS)	TR		
	Q 910	UN4213	TRANSISTOR		

BLOCK NO. 06

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q 912	UN4210	TRANSISTOR		
	R 101	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 102	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 103	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 104	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 105	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 106	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 107	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 108	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
	R 109	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 110	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 111	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 112	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 113	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 114	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 115	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 116	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	R 117	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 118	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 119	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 121	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 127	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 129	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 130	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 131	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 132	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 133	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
	R 134	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 140	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 141	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 142	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 143	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 144	QRD161J-470	CARBON RESISTOR	47 5% 1/6W	
	R 145	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	R 146	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 147	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 148	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 149	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R 150	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	R 151	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 201	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 202	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 203	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 204	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 205	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 206	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 207	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 208	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
	R 209	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 210	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 211	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 212	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 213	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 214	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 215	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	

BLOCK NO. 06□□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 216	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	R 217	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 218	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 219	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 221	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 227	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 229	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 230	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 231	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 232	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 233	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
	R 234	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 240	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 241	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 242	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 243	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 244	QRD161J-470	CARBON RESISTOR	47 5% 1/6W	
	R 245	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	R 246	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 247	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 248	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 249	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R 250	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	R 251	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 301	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 302	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 303	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 304	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 305	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 306	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 307	QRD167J-121	CARBON RESISTOR	120 5% 1/6W	
	R 313	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 314	QRD167J-121	CARBON RESISTOR	120 5% 1/6W	
	R 316	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 317	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R 318	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 319	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 320	QRD167J-121	CARBON RESISTOR	120 5% 1/6W	
	R 901	QRD143J-4R7S	CARBON RESISTOR	4.7 5% 1/4W	
	R 902	QRD143J-4R7S	CARBON RESISTOR	4.7 5% 1/4W	
	R 903	QRD143J-4R7S	CARBON RESISTOR	4.7 5% 1/4W	
	R 904	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 905	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 906	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 907	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 908	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 909	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	R 910	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 911	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 912	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 913	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 914	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
	R 915	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 916	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 917	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	

BLOCK NO. 06□□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 920	QRD12CJ-470SX	C RESISTOR	47 5% 1/2W	
	R 921	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 922	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 927	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 928	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 929	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 930	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 931	QRD143J-333S	CARBON RESISTOR	33K 5% 1/4W	
	R 932	QRD143J-331S	CARBON RESISTOR	330 5% 1/4W	
	T 301	EQF0101-002	FILTER		
	VR301	VCV1001-101	E.MOTOR VOLUME	MAIN	

■ CD/Tuner Control Board Parts List

BLOCK NO. 07□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D 705	MA165	SI DIODE		
	IC701	SBX1610-02	RM RECIVER		
	R 701	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 702	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 703	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 704	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 705	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 706	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 707	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 708	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 709	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 710	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 711	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 712	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 713	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 714	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 715	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 716	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 717	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 718	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 719	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 720	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 733	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 734	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	S 701	QSQ4H11-V02Z	TACT SW	TIMER ON/OFF	
	S 702	QSQ4H11-V02Z	TACT SW	ENTER	
	S 703	QSQ4H11-V02Z	TACT SW	DISPLAY/CLOCK	
	S 704	QSQ4H11-V02Z	TACT SW	TIMER SET	
	S 705	QSQ4H11-V02Z	TACT SW	SLEEP	
	S 706	QSQ4H11-V02Z	TACT SW	DOWN	
	S 707	QSQ4H11-V02Z	TACT SW	UP	
	S 708	QSQ4H11-V02Z	TACT SW	STOP/CLEAR	
	S 709	QSQ4H11-V02Z	TACT SW	PLAY/PAUSE	
	S 710	QSQ4H11-V02Z	TACT SW	TREBLE +	
	S 711	QSQ4H11-V02Z	TACT SW	TREBLE -	
	S 712	QSQ4H11-V02Z	TACT SW	BASS +	
	S 713	QSQ4H11-V02Z	TACT SW	BASS -	
	S 714	QSQ4H11-V02Z	TACT SW	PRESET	
	S 715	QSQ4H11-V02Z	TACT SW	SUPER BASS	
	S 716	QSQ4H11-V02Z	TACT SW	AUX	
	S 719	QSQ4H11-V02Z	TACT SW	FM MODE	
	S 720	QSQ4H11-V02Z	TACT SW	TUNER/BAND	
	S 721	QSQ4H11-V02Z	TACT SW	EJECT	

13 Packing Illustration and Packing Parts List

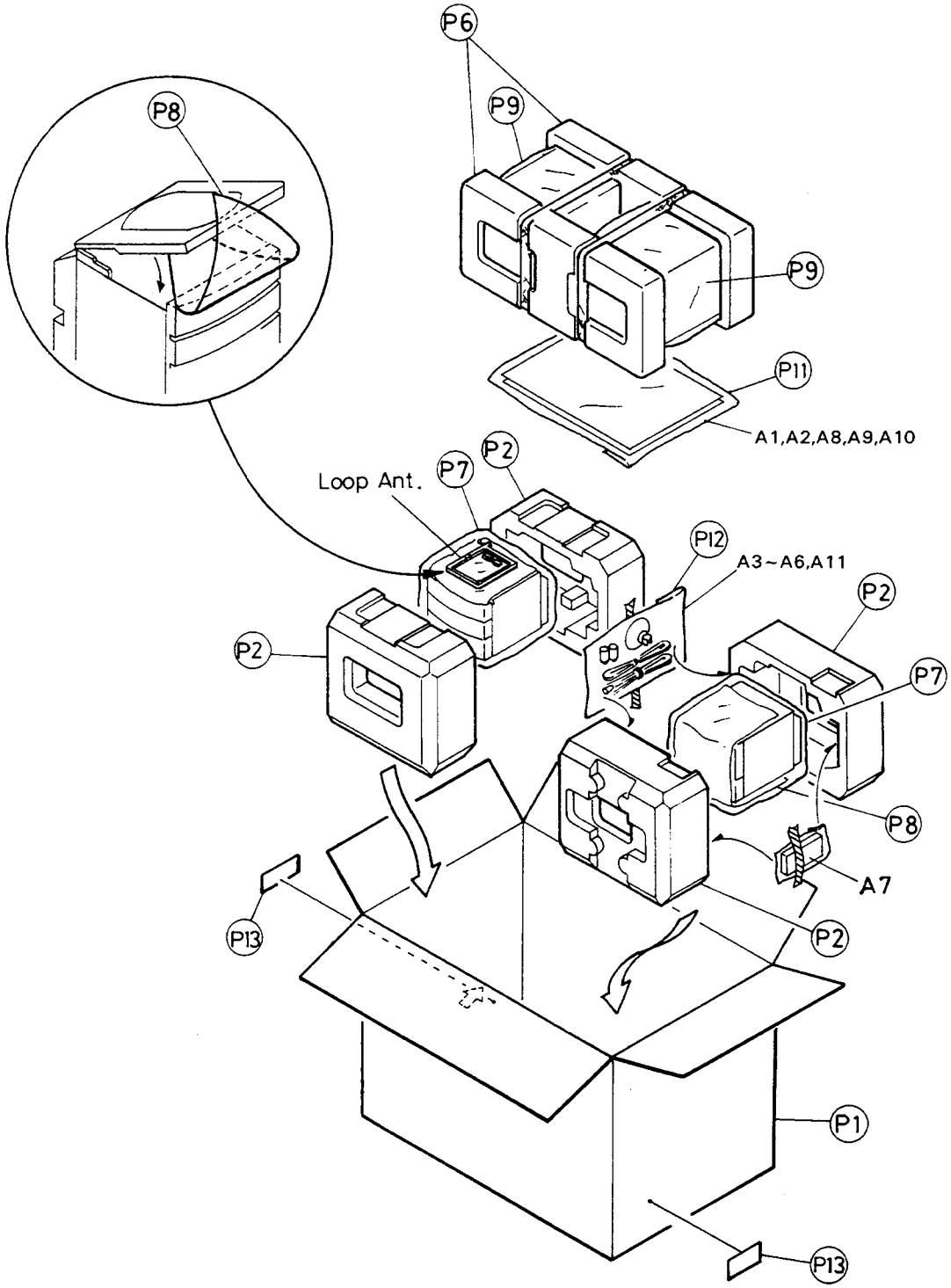


Fig. 13-1

■ Packing Parts List

BLOCK NO. M6MM[ ][ ][ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	VNN9181-112	INSTRUCTION		1	A	
		VNN9181-261	INSTRUCTION		1	E,G,EN	
		VNN9181-271	INSTRUCTION		1	EN	
		VNN9181-251	INSTRUCTION		1	B,E,GI	
	A 3	UM-4NJ-2P	BATTERY		2		
	A 4	EWP502-001	FM ANTENNA		1		
	A 5	VMP0093-002	SPEAKER CORD		2		
	A 6	E304084-001	LOOP STAND		1		
	A 7	VGR0007-002	REMOCON UNIT		1		
	A 8	BT-20114	WARRANTY CARD		1	G	
		BT-20122	WARRANTY CARD		1	A	
		BT-20122-1-A	WARRANTY CARD		1	A	
		BT-20066A	WARRANTY CARD		1	B,G	
		BT20060	WARRANTY CARD		1	B	
	A 9	E43486-340B	SAFETY INST.SHE		1	B	
	A 10	PU36158	FTZ INF.SHEET		1	G	
	A 11	VGZ0112-001	ADAPTER		1	B,E,G,GI,EN	
	P 1	VPC9181-006A	CARTON		1		
	P 2	VPH1602-001	CUSHION		1		
	P 3	VPH1602-002	SIDE CUSHION		1		
	P 4	VPH1603-001	SIDE CUSHION		1		
	P 5	VPH1603-002	SIDE CUSHION		1		
	P 6	VPH3216-001	SIDE CUSHION		2		
	P 7	VPE3005-065	POLY BAG	300 X 510	2		
	P 8	VPK4002-009	SHEET		2		
	P 9	DH434-PC-X1000	POLY BAG	FOE SPEAKER	2		
	P 11	VPE3005-007	POLY BAG		1		
	P 12	QPGA010-03003	POLY BAG		1		
	P 13	VND3044-001	SERIAL LABEL		1	EN,A	
		VND3044-003	SERIAL LABEL		1	E	
		VND3044-005	SERIAL LABEL		1	G	
		VND3044-004	SIRIAL TICKET		1	B	
	P 14	VND3025-166	BAR CODE LABEL		1		

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